

HITACHI

Inspire the Next

DVD/VCR Combo (DVD PLAYER with VIDEO CASSETTE RECORDER)

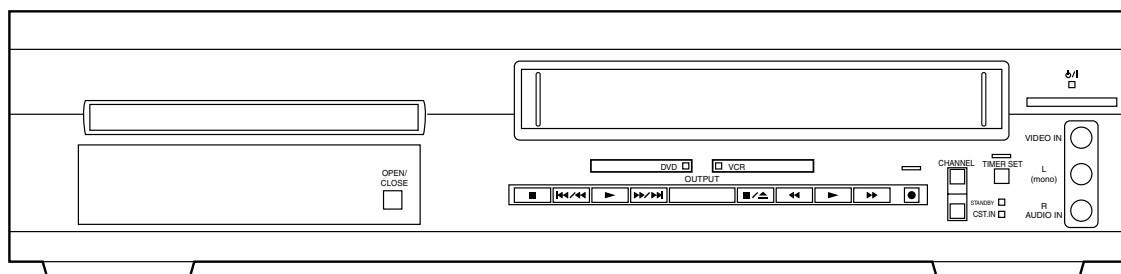
INSTRUCTION MANUAL



VIDEOPlus+ and PlusCode are registered trademarks of Gemstar Development Corporation. The VIDEOPlus+ system is manufactured under license from Gemstar Development Corporation.

MODEL

DVPF2EUK



Instruction manual

To obtain the best performance and ensure years of trouble-free use, please read this instruction manual completely.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION: VISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED.
AVOID EXPOSURE TO BEAM.

LOCATION:

* PRINTED ON THE BACK

* INSIDE, TOP OF THE MECHANISM

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
KLASS 1 LASER APPARAT
CLASSE 1 PRODUIT LASER

CAUTION - VISIBLE LASER
RADIATION WHEN OPEN AND
INTERLOCK DEFEATED.
AVOID EXPOSURE TO BEAM.



CONNECTION TO POWER (For the area of Great Britain)

Before Switching on make sure that the voltage of your electricity supply is the same as that indicated on the rating plate.

Mains Cord

This appliance may be fitted with a non-rewireable plug. If it is necessary to change the fuse in a non-rewireable plug the fuse cover must be refitted. If the fuse cover is lost or damaged, the plug must not be used until a replacement available from the appliance manufacturer is obtained. It is important that the colour of the replacement fuse cover corresponds with the rating marking on the base of the plug.

If the plug has to be changed because it is not suitable for your socket, or becomes damaged, it should be cut off and an appropriate plug fitted following the wiring instructions below. The plug removed must be disposed of safely as insertion into a 13A socket is likely to cause an electrical hazard. For your own safety read the following instructions carefully before attempting to connect this unit to mains. The wires in this mains lead are coloured in accordance with the following code:

BLUE=NEUTRAL, BROWN=LIVE

Important

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:-

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

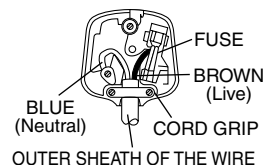
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

No connection is to be made to the earth terminal of the plug.

If a 13 Amp (BS 1363) Plug is used, a 3 Amp Fuse must be fitted, or if any other type of Plug is used a 3 or 5 Amp Fuse must be fitted, either in the Plug or Adaptor, or on the Distribution Board.


Mains Supply: 220 - 240 V
~50 Hz - AC only

Do not make any connection to the larger pin marked with the letter "E" or by the symbol \perp or coloured green or green and yellow.



PRECAUTIONS

POWER SUPPLY

The main power supply is engaged when the main plug is plugged in a 220-240V~ 50Hz AC outlet. To operate the unit, press the  (Standby/Power ON) Button to turn on the unit.

WARNING

To avoid fire or electric shock, do not expose this unit to rain or moisture.

DEW WARNING

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, or after heating a cold room or under con-

WARNING:

LIVE PARTS INSIDE.

DO NOT REMOVE ANY SCREWS.

ditions of high humidity. Do not use the DVD/VCR Player at least for 2 hours until its inside is dry.

CAUTION

- 1) Do not attempt to open the cabinet. There are no parts you can service inside. Refer all servicing to qualified service personnel.
- 2) Slot and openings in the cabinet and at the side or bottom are provided for ventilation. To ensure reliable operation and to protect the unit from overheating these opening must not be blocked or covered. Avoid enclosed spaces such as book cases unless proper ventilation is provided.
- 3) Keep the unit away from the radiator heat sources.
- 4) Avoid using near strong magnetic fields.
- 5) Do not push objects of any kind into this through the cabinet slot as they could touch current carrying parts or short circuit parts resulting in a fire or electric shock.
- 6) Never spill liquid of any kind on this unit. If liquid is spilled into the unit, consult qualified service engineer.
- 7) Use this unit in a horizontal (flat) position only.
- 8) This equipment is in Stand-by mode when it turns off whilst the power cord is connected.

DECLARATION OF CONFORMITY

This product complies with the requirement of the directives

EMC-Directive:	89 / 336 / EEC
Low Voltage Directive:	73 / 23 / EEC
CE Marking:	93 / 68 / EEC

declare that the DVD/VCR player with video cassette recorder

DV-PF2E(UK)

are in compliance with following norms:

EN 55013:1990
 +A12:1994+A13:1996+A14:1999
 EN 55020:1994
 +A11:1996+A12:1999+A13:1999+A14:1999
 EN 61000-3-2:1995+A14:2000, EN61000-3-3:1995
 EN 60065:1998
 EN 60825-1:1994

A NOTE ABOUT RECYCLING

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

The serial number of this product may be found on the back of the DVD/VCR. No others have the same serial number as yours. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft. Serial numbers are not kept on file.

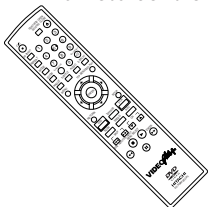

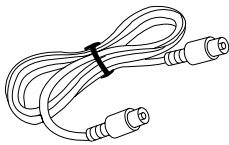
Date of Purchase	
Dealer Purchase from	
Dealer Address	
Dealer Phone No.	
Model No.	
Serial No.	

ABOUT COPYRIGHT

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

SUPPLIED ACCESSORIES

<p>Remote control</p>  <p>(DV-RMPF2E (UK))(TS16907)</p>	<p>Two AA batteries</p> 	<p>RF Coaxial Cable</p>  <p>75 ohm (TE15231)</p>
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SYMBOLS USED IN THIS MANUAL

The following symbols below appear in some headings and notes in this manual, with the following meanings!

VCR

: Description refers to playback of video cassette tapes.

DVD

: Description refers to playback of DVD video discs.

CD

: Description refers to playback of audio CDs.

MP3

: Description refers to playback of MP3 discs.

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FEATURES

DVD Mode

● Dolby Digital sound

This player can handle Dolby Digital surround sound having 5.1 channels when connected to a Dolby Digital decoder.

● Still/fast/slow/step playback

Various playback modes are available including still pictures, fast forward/reverse, slow motion and step frames.

● Random playback for audio CD and MP3

This player can shuffle the order of tracks to play them in random order.

● Programme playback for audio CD and MP3

You can programme the order of tracks to play them in any desired order.

● DVD menus in a desired language

You can display DVD menus in a desired language, if available on a DVD.

● Screen saver/Auto power-off functions

The screen saver programme starts when there is no input from the player for five minutes in the stop mode. When the screen saver programme is activated for 30 minutes, the screen saver is automatically turned off.

● Subtitles in a desired language

You can select a desired language for the display subtitles, if that language is available on a disc.

● Selecting a camera angle

You can select the desired camera angle, if a disc contains sequences recorded from different angles.

● Choices for audio language and sound mode

You can select the desired audio language and sound mode, if different languages and modes are available on a disc.

● Parental lock

You can set the control level to limit playback of discs which may not be suitable for children.

● Automatic detection of discs

This player automatically detects if a loaded disc is DVD, audio CD or MP3 on disc.

● Playing an MP3 disc

You can enjoy MP3 files which are recorded on CD-R/RW.

● Direct Search

You can search the desired title, chapter, and track with Number Button during playback or in stop mode.

● On-screen display

Information about the current operation can be displayed on a TV screen, allowing you to confirm the currently active functions (such as programme playback), on the TV screen using the remote control.

● DTS (Digital Theater System)

Sound system different from Dolby Digital sound system.

● Search

Chapter search: Search for the chapter designated by user is possible.

Title search: Search for the title designated by user is possible.

Track search: Search for the track designated by user is possible.

Time search: Search for the time designated by user is possible.

● Repeat

Chapter: Repeated playback of the chapter of the disc being played is possible.

Title: Repeated playback of the title of the disc being played is possible.

Track: Repeated playback of the track of the disc being played is possible.

Disc (audio CD): Repeated playback is possible.
(MP3): Repeated playback is possible.

A-B: The part between A and B designated by user is possible.

Album: Repeated playback of the folder of the MP3 disc being played is possible.

● Zoom

2-time and 4-time magnified screen can be displayed.

● Marker

The part designated by user can be called back.

● Resume Play

User can resume to playback from the part at which the play was stopped even if the power turn off.

● SRS TruSurround

You can enjoy stereophonic virtual space on your existing stereo system.

● Component Video Out Jacks

Jacks located on the back of the DVD/VCR which are used to send high-quality video to a TV via Component Video In Jacks.

● Dimmer

Brightness of the display can be varied.

● Bit rate indication

● DRC (Dynamic range control)

You can control the range of sound volume.

This unit employs TruSurround system

TruSurround[™] of SRS Labs, Inc. as virtual
by **SRS** (●) technology.

TruSurround and (●) symbol are trademarks of
SRS Labs, Inc.

TruSurround technology is incorporated under license
from SRS Labs, Inc.

VCR Mode**Hardware specifications**

- **AUDIO OUTPUT L/R jacks**
- **Auto Head Cleaner**
- **4 Head HiFi Stereo**
- **On Screen Display**
- **PLL Synthesiser Tuner with 99 channels presettable**

Automatic functions

- **Auto power on system**
Automatically turns the DVD/VCR on when you insert a cassette.
- **Automatic Operations**
- **Digital Auto Tracking (DTR)**

Playback

- **Auto Repeat**
- **Auto Return**
- **NTSC Playback**
- **Picture Select**

- **Quick-Find**
- **Slow Motion**
- **Index Search**
- **Time Search**
- **2 Step Picture Search Operation**

Recording

- **One Touch Recording**
- **1 Year, 8 events Timer Recording (including Once, Daily, Everyday, and Weekly Timer Recording)**
- **PDC(Programme Delivery Control)**

PRECAUTIONS

INSTALLATION LOCATION

For safety and optimum performance of your DVD/VCR:

- Install the DVD/VCR in a horizontal and stable position. Do not place anything directly on top of the DVD/VCR. Do not place the DVD/VCR directly on top of the TV.
- Shield it from direct sunlight and keep it away from sources of intense heat. Avoid dusty or humid places. Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes on the sides of the DVD/VCR. Avoid locations subject to strong vibration or strong magnetic fields.

AVOID THE HAZARDS OF ELECTRICAL SHOCK AND FIRE

- Do not handle the power cord with wet hands.
- Do not pull on the power cord when disconnecting it from AC wall outlet. Grasp it by the plug.
- If, by accident, water is spilled on your DVD/VCR, unplug the power cord immediately and take the unit to our Authorized Service Center for servicing.
- Do not put your fingers or objects into the DVD/VCR cassette holder.



MOISTURE CONDENSATION WARNING

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, or after heating a cold room or under conditions of high humidity. Do not use the DVD/VCR at least for 2 hours until its inside is dry.

ABOUT THE DISCS

PLAYABLE DISCS

The following discs can be played back on this DVD/VCR.

Disc Type	Logo	Contents	Disc Size	Maximum Playback Time
DVD Video		Sound and Pictures	12 cm	Approx. 4 h (single-sided)
				Approx. 8 h (double-sided)
			8 cm	Approx. 80 min (single-sided)
				Approx. 160 min (double-sided)
Audio CD		Sound	12 cm	74 min
			8 cm (singles)	20 min

- Some discs include region codes as shown below.



- The number inside the symbol refers to a region of the world, and a disc encoded in a specific region format can only be played back on the player with the same region code.

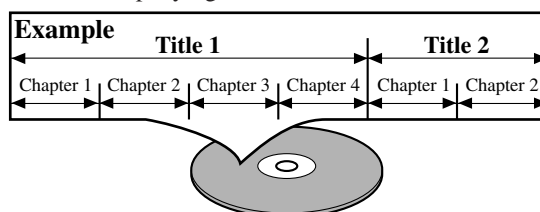
The following discs cannot be played back on this DVD/VCR.

- DVD with region codes other than 2 or ALL.
- DVD-ROM
- DVD-RAM (Never play back, otherwise malfunction may result.)
- CD-ROM
- VSD
- CDV (Only plays back the audio part.)
- CD-G (Only plays back the audio part.)
- CD-R/CD-RW
(Only plays back the discs which audio CD and MP3 is recorded.)
- CD-I
(Never play back, otherwise malfunction may result.)
- SACD
- Photo CD
(Never play back, otherwise malfunction may result.)
- DVD-Audio
- Any other discs without compatibility indications

DISC TYPES

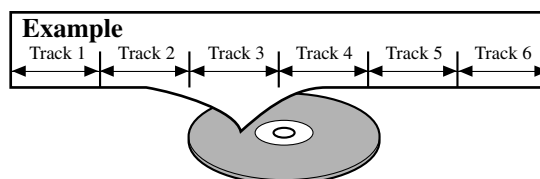
[DVD]

Data on a DVD is divided into sections called "titles", and then into subsections called "chapters", each of which is given a title or chapter number. Playback conditions are preset on some DVD video discs, and these playback conditions take priority over user operations on this player. If a function you selected do not run as desired, refer to the manual accompanying the disc.



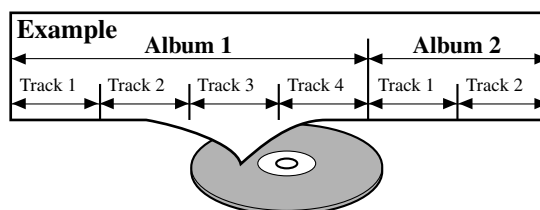
[AUDIO CD]

Data on an audio CD is divided into sections called "tracks", each of which is given a track number.



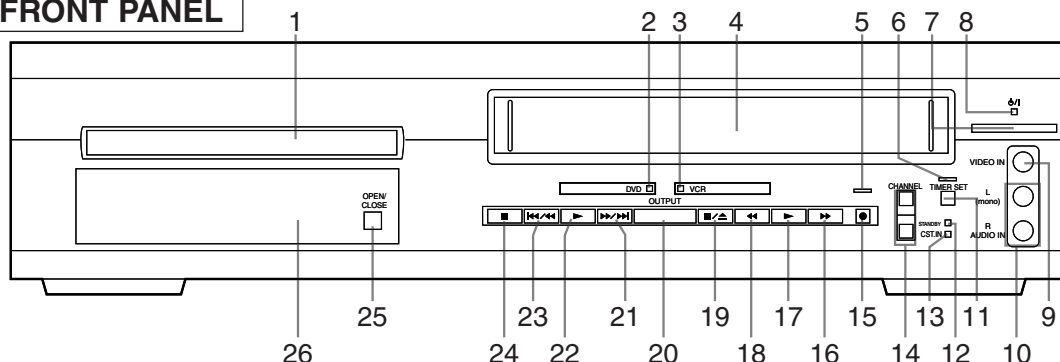
[MP3]

Data on a MP3 is divided into sections called "albums", and then into subsections called "tracks", each of which is given an album or track number.

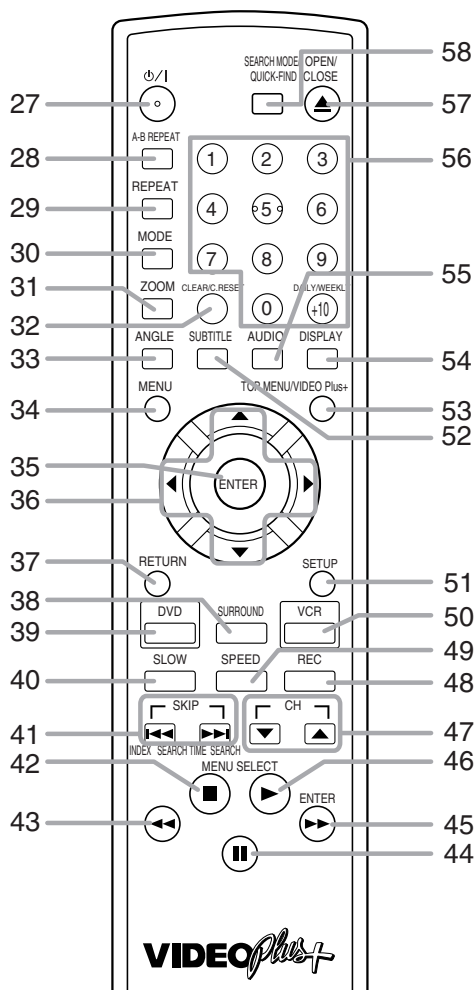


OPERATING CONTROLS AND FUNCTIONS

FRONT PANEL



REMOTE CONTROL



VCR operation Buttons : Blue
DVD operation Buttons : Green
Common operation Buttons : White

1. Disc loading tray
2. **DVD OUTPUT Light (Green) [page 15]**
 This light appears when the DVD output mode is selected. You can only watch DVDs when the green DVD

OUTPUT Light is on. To make the green DVD OUTPUT light come on, press the DVD Button on the remote control or the OUTPUT Button on the front panel.

3. **VCR OUTPUT Light (Green) [page 15]**
 This light appears when the VCR output mode is selected. You can only watch tapes when the green VCR OUTPUT light is on. To make the green VCR OUTPUT light come on, the VCR Button on the remote control or the OUTPUT Button on the front panel.
4. **CASSETTE COMPARTMENT**
5. **REC/OTR Light [page 26]**
 Lights up during recording.
6. **TIMER SET Light [page 27]**
 This light glows when the DVD/VCR is in standby mode or off for a timer recording or during a One-Touch Recording. It flashes if the TIMER SET Button is pressed for a timer recording, but there is no tape in the DVD/VCR. It flashes when all timer recordings or One Touch Recording are finished.
7. **⏻ (Standby/Power ON) Button**
 Press to turn the power on and off.
8. **⏻ (Standby/Power ON) Light**
 Lights up when the power is on.
9. **VIDEO In Jack**
 Connect a video cable coming from the video out jack of a camcorder, another VCR, or a video source (laser disc player, etc.) here.
10. **AUDIO In Jacks**
 Connect audio cables coming from the audio out jacks of a camcorder, another VCR, or an audio source here.
11. **TIMER SET Button [page 27]**
 Press to put the DVD/VCR into standby mode for a timer recording.
12. **STANDBY Light**
 Lights up when the DVD/VCR is plugged in.
13. **CST. IN Light**
 Lights up when a cassette is in the DVD/VCR.
14. **CHANNEL Buttons [page 17,25]**
 In VCR mode, press to change TV channels on the DVD/VCR; press to adjust the tracking during normal or slow motion playback; press to remove vertical jitter in a Still picture.
15. **REC/OTR Button (VCR) [page 25,26]**
 Press once to start a recording. Press repeatedly to start an One Touch Recording Timer.

16. **▶▶(F.FWD) Button (VCR) [page 21]**
Press to rapidly advance the tape, or view the picture rapidly in forward during playback. (Forward Search). When setting programme (For example: setting clock or timer programme), press to determine your selection and proceed to the next step you want to input. Press to determine the setting modes from the on screen menu. Press to add or delete channel numbers during channel preset.
17. **▶(PLAY) Button (VCR) [page 21]**
Press to begin playback. Press to enter digits when setting programme (For example: setting clock or timer programme). Press to select the setting modes from the on screen menu.
18. **◀◀(REW) Button (VCR) [page 21]**
Press to rewind the tape, or to view the picture rapidly in reverse during the playback mode (Rewind Search). Press to cancel a setting of timer programme. Press to correct digits when setting programme (For example: setting clock or timer programme). Press to add or delete channel numbers during channel preset.
19. **■/▲(STOP/EJECT) Button (VCR) [page 28]**
 - **EJECT Button**
Press to remove the tape from the DVD/VCR.
 - **STOP Button**
Press to stop the tape motion. Press to enter digits when setting programme (For example: setting clock or timer programme). Press to select the setting modes from the on screen menu.
20. **OUTPUT Button [page 15]**
Press to select DVD mode or VCR mode.
 - You can switch the output mode of the DVD/VCR either by pressing the OUTPUT Button on the front panel, or by pressing the DVD or VCR Button on the remote control. However, **pressing only the OUTPUT Button on the front panel does not switch the output mode of the remote control. If you want to use the remote control, you always need to select the correct output mode on the remote control, too.**
21. **▶▶/▶▶(SKIP) Button (DVD) [page 36]**
Plays back from the beginning of the next chapter or track. Hold down to fast forward playback.
22. **▶(PLAY) Button (DVD) [page 33]**
Starts playback of the disc contents.
23. **◀◀/◀◀(SKIP) Button (DVD) [page 36]**
Plays back from the beginning of the current chapter or track. Hold down to fast reverse playback.
24. **■(STOP) Button (DVD) [page 33]**
Stops operation of the disc.
25. **OPEN/CLOSE Button [page 33]**
Press to insert discs into or remove them from the tray.
26. **Display, Remote Sensor Window**
27. **⏻/⏻ (Standby/Power ON) Button**
Press to turn the power on and off.
28. **A-B REPEAT Button [page 37]**
Repeats playback of a selected section.
29. **REPEAT Button [page 36]**
Repeats playback of the current disc, title, chapter or track.
30. **MODE Button [pages 36]**
Activates programme playback or random playback mode when playing CDs or MP3. Sets Black level or SRS TruSurround.
31. **ZOOM Button [page 38]**
Enlarges part of a DVD-reproduced image.
32. **CLEAR/C.RESET Button**
 - **DVD mode [page 36]**
Press to reset the setting.
 - **VCR mode [page 23]**
Press to reset the counter.
33. **ANGLE Button [page 41]**
Press to change the camera angle to see the sequence being played back from a different angle.
34. **MENU Button**
 - **DVD mode [page 33]**
Press to display the menu of the Disc.
 - **VCR mode [page 21]**
Press to access the VCR menu.
35. **ENTER Button [page 33]**
Press to accept a setting.
36. **Arrow Buttons (▼/▲/◀/▶) [page 33]**
Use when making settings while watching the display on a TV screen.
37. **RETURN Button [page 36]**
Returns to the previous operation.
38. **SURROUND Button [page 42]**
Press to enjoy stereophonic sound system when you playback Dolby Digital and PCM 48kHz sound.
39. **DVD Button [page 15]**
Press to select DVD mode for the remote control.
 - You can switch the output mode of the DVD/VCR either by pressing the OUTPUT Button on the front panel, or by pressing the DVD or the VCR Button on the remote control. However, **pressing only the OUTPUT Button on the front panel does not switch the output mode of the remote control. If you want to use the remote control, you always need to select the correct output mode on the remote control, too.**
40. **SLOW Button (VCR) [page 24]**
During tape playback, press to view the video tape in slow motion. Press the ▶ Button to resume normal playback. This Button does not affect DVD playback.
41. **SKIP Buttons (◀◀/▶▶) (DVD) [page 36]**
Press to skip Chapters or Tracks.
INDEX SEARCH Button (◀◀) (VCR) [page 30]
Press to perform Index Search.
TIME SEARCH Button (▶▶) (VCR) [page 30]
Press to perform Time Search.
42. **■(MENU SELECT/STOP) Button**
 - **DVD mode [page 33]**
Stops operation of the disc.
 - **VCR mode [page 25]**
Press to stop the tape motion. Press to enter digits when setting programme (For example: setting clock or timer programme). Press to select the setting modes from the on screen menu.
43. **◀◀ (REV/REW) Button**
 - **DVD mode [page 35]**
Press to view the DVD picture in fast reverse motion or to reverse playback of an Audio CD.
 - **VCR mode [page 24]**
Press to rewind the tape, or to view the picture rapidly in reverse during the playback mode (Rewind Search). Press to cancel a setting of timer programme. Press to correct digits when setting pro-

gramme (For example: setting clock or timer programme). Press to add or delete channel numbers during channel preset.

44. **II (PAUSE/STILL) Button**

● **DVD mode [page 34]**

Press to pause Disc playback. Press repeatedly to advance the DVD picture step by step (or one frame at a time).

● **VCR mode [page 24]**

While recording, press to temporarily stop the recording (pause). Press a second time to resume normal recording. You can not pause a One Touch Recording. Or, press during tape playback to freeze the picture. Press to advance the picture one frame at a time during still mode.

45. **▶▶ (ENTER/FWD/F.FWD) Button**

● **DVD mode [page 36]**

Press to fast forward the Disc. Press the **II** Button, then press this Button to begin slow motion playback. Press this Button repeatedly to change the forward speed of slow motion.

● **VCR mode [page 21]**

Press to rapidly advance the tape, or view the picture rapidly in forward during playback (Forward Search). When setting programme (For example: setting clock or timer programme), press to determine your selection and proceed to the next step you want to input. Press to determine the setting modes from the on screen menu. Press to add or delete channel numbers during channel preset.

46. **▶ (MENU SELECT/PLAY) Button**

● **DVD mode [page 33]**

Press to begin playback.

● **VCR mode [page 24]**

Press to begin playback. Press to enter digits when setting programme (For example: setting clock or timer programme). Press to select the setting modes from the on screen menu.

47. **CH Buttons (▼/▲) (VCR) [page 17,25]**

In VCR mode, press to change TV channels on the DVD/VCR; press to adjust the tracking during normal or slow motion playback; press to remove vertical jitter in a Still picture.

48. **REC Button (VCR) [page 25]**

Press once to start a recording.

49. **SPEED Button (VCR) [page 25]**

Press to select the VCR's recording speed (SP or LP).

50. **VCR Button [page 15]**

Press to select VCR mode for the remote control.

● You can switch the output mode of the DVD/VCR either by pressing the **OUTPUT** Button on the front panel, or by pressing the **DVD** or the **VCR** Button on the remote control. However, **pressing only the OUTPUT Button on the front panel does not switch the output mode of the remote control. If you want to use the remote control, you always need to select the correct output mode on the remote control, too.**

51. **SETUP Button [page 43]**

Press to enter the setup mode.

52. **SUBTITLE Button [page 41]**

Press to select the desired subtitle language.

53. **TOP MENU/VIDEO Plus+ Button**

● **DVD mode [page 34]**

Press to bring up the Top Menu on a disc.

● **VCR mode [page 29]**

Press to programme timer recording with the VIDEO Plus+ system.

54. **DISPLAY Button**

● **DVD mode [page 39]**

Press to access or remove the display screen during DVD or Audio CD playback.

● **VCR mode [page 26]**

Press to access or remove the VCR's on-screen status display.

55. **AUDIO Button**

● **DVD mode [page 40]**

Press to select a desired audio language or sound mode.

● **VCR mode [page 20]**

Press to select a desired sound mode.

56. **Number Buttons**

● **DVD mode [page 35]**

Press to directly select a Track (Audio CD) for playback.

Press to programme Tracks (Audio CD) for playback.

+10 Button:

When searching a TITLE, a CHAPTER, or a TRACK, use this button to enter numbers 10 and above. For example when entering '15', press this button first, then press '5'.

● **VCR mode [page 22]**

Press to select TV channels on the DVD/VCR.

To select channels, enter channel numbers as a two-digit number for the quickest results. For example, to select channel 6, press 0 then 6.

DAILY/WEEKLY Button:

Press to select once, daily, everyday, or weekly when you programme the automatic timer recording using the VIDEO Plus+ system.

57. **OPEN/CLOSE Button (▲) [page 33]**

Press to insert discs into or remove them from the tray.

58. **SEARCH MODE/QUICK-FIND Button**

● **DVD mode [page 35]**

Press to access or remove the Search display, which allows you to go directly to a specific Title/Chapter/Track/Time.

















● **VCR mode [page 30]**

Press to use Quick-Find mode.





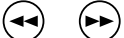









Tour of the Remote Control

Buttons on remote control work in different ways for DVD, CD and VCR :

Refer to the following table for correct use.

	DVD	CD	VCR
POWER/STANDBY Button 	<ul style="list-style-type: none"> Turns the DVD/VCR on and off. 	<ul style="list-style-type: none"> Turns the player on and off. 	<ul style="list-style-type: none"> Turns the DVD/VCR on and off.
A-B REPEAT Button 	<ul style="list-style-type: none"> Marks a segment to repeat between A and B. 	<ul style="list-style-type: none"> Marks a segment to repeat between A and B. 	—
REPEAT Button 	<ul style="list-style-type: none"> Allows you to repeat play a Chapter or Title. 	<ul style="list-style-type: none"> Allows you to repeat play a Track or Disc. 	—
MODE Button 	<ul style="list-style-type: none"> To set black level on/off. To set surround on/off. 	<ul style="list-style-type: none"> Allows you to program a specific order or random playback. 	—
ZOOM Button 	<ul style="list-style-type: none"> To magnify part of picture (x2/x4) 	—	—
ANGLE Button 	<ul style="list-style-type: none"> Accesses various camera angles on a disc. 	—	—
SUBTITLE Button 	<ul style="list-style-type: none"> Accesses various subtitles on a disc. 	—	—
AUDIO Button 	<ul style="list-style-type: none"> Accesses various audio functions on a disc. 	<ul style="list-style-type: none"> To select STEREO, L-CH or R-CH. 	<ul style="list-style-type: none"> To select STEREO, L-CH, R-CH, or NORMAL.
DISPLAY Button 	<ul style="list-style-type: none"> Displays the current disc mode. 	<ul style="list-style-type: none"> Displays the current disc mode. 	<ul style="list-style-type: none"> Displays the current time, tape counter, channel.
SEARCH MODE/ QUICK-FIND Button 	<ul style="list-style-type: none"> To search chapter or time. To rapidly return to a location of disc. To Search markers. 	<ul style="list-style-type: none"> To search track or time. To rapidly return to a location of disc. To Search markers. 	<ul style="list-style-type: none"> To search and confirm the contents of the recorded programme(s).
OPEN/CLOSE Button 	<ul style="list-style-type: none"> To open or close the disc tray. 	<ul style="list-style-type: none"> To open or close the disc tray. 	—
Number Buttons 	<ul style="list-style-type: none"> To select chapter directly. 	<ul style="list-style-type: none"> To select track directly, use display function, or input program order. 	<ul style="list-style-type: none"> To select channel.
CLEAR/C.RESET Button 	<ul style="list-style-type: none"> Clear the makers. Clear the number that is entered incorrectly. 	<ul style="list-style-type: none"> Clear the makers. Removes status No. in program input. Clear the number that is entered incorrectly. 	<ul style="list-style-type: none"> To reset the tape counter.
MENU Button 	<ul style="list-style-type: none"> Brings up the Menu on a disc. 	—	<ul style="list-style-type: none"> Brings up the VCR Menu.
TOP MENU/VIDEO Plus+ Button 	<ul style="list-style-type: none"> Brings up the Top Menu on a disc. 	—	<ul style="list-style-type: none"> To programme timer recording with the VIDEO Plus+ system.
RETURN Button 	<ul style="list-style-type: none"> Returns to a previous menu. 	—	—

Tour of the Remote Control

	DVD	CD	VCR
ENTER/Arrow Buttons 	<ul style="list-style-type: none"> Moves the cursor and determines its position. 	<ul style="list-style-type: none"> Moves the cursor and determines its position. 	<p>—</p>
SETUP Button 	<ul style="list-style-type: none"> Brings up the DVD player's Setup menu. 	<ul style="list-style-type: none"> Brings up the DVD player's Setup menu. 	<p>—</p>
DVD MODE:SKIP Buttons VCR MODE:INDEX SEARCH/ TIME SEARCH Button 	<ul style="list-style-type: none"> To skip Chapters. 	<ul style="list-style-type: none"> To skip Tracks. 	<ul style="list-style-type: none"> To perform INDEX or TIME SEARCH.
CH Buttons 	<p>—</p>	<p>—</p>	<ul style="list-style-type: none"> To change channels.
DVD MODE: (REV/FWD) Button VCR MODE: (REW/F.FWD) Button 	<ul style="list-style-type: none"> Allows you to search forward/backward through a disc (×2. ×8. ×30. ×60) . 	<ul style="list-style-type: none"> Allows you to search forward/backward through a disc (×16) . 	<ul style="list-style-type: none"> Allows you to forward/backward through a tape. To return(advance) to a previous(next) VCR Menu.
MENU SELECT/STOP Button 	<ul style="list-style-type: none"> To stop playback. 	<ul style="list-style-type: none"> To stop playback. 	<ul style="list-style-type: none"> To stop playback or record. To select an item in the VCR Menu.
MENU SELECT/PLAY Button 	<ul style="list-style-type: none"> Begin disc play. 	<ul style="list-style-type: none"> Begin disc play. 	<ul style="list-style-type: none"> Begin tape play. To select an item in the VCR Menu.
PAUSE/STILL Button 	<ul style="list-style-type: none"> Pause disc play. Advances playback one frame at a time. 	<ul style="list-style-type: none"> Pause disc play. 	<ul style="list-style-type: none"> Pause tape play or record. Advances playback one frame at a time.
DVD Button 	<ul style="list-style-type: none"> To select the DVD output mode. To use the remote control in DVD mode. 	<p>—</p>	<p>—</p>
VCR Button 	<p>—</p>	<p>—</p>	<ul style="list-style-type: none"> To select the VCR output mode. To use the remote control in VCR mode.
SLOW Button 	<p>—</p>	<p>—</p>	<ul style="list-style-type: none"> To view the tape in slow motion.
SURROUND Button 	<ul style="list-style-type: none"> To activate the 3D sound. 	<p>—</p>	<p>—</p>
SPEED Button 	<p>—</p>	<p>—</p>	<ul style="list-style-type: none"> To select the recooding speed.
REC Button 	<p>—</p>	<p>—</p>	<ul style="list-style-type: none"> To start a recording.

DISPLAY

Stays on when the A-B repeat function is on.

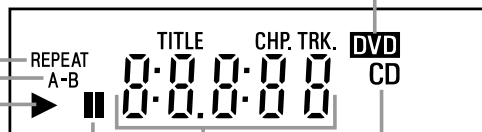
Stays on when the repeat function is on.

Lights up when a DVD is inserted on the tray.

Lights up when the inserted disc comes to a pause.

Stays on when the inserted disc is being played back.

Displays how long a current title or track has been played back. When a chapter or track has switched, the number of a new title, chapter or track is displayed.

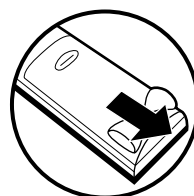


DISPLAYS DURING OPERATION

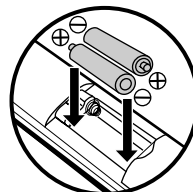
	Power on
	No disc inserted
	Tray open
	Tray closed
	Loading the Disc
	Power off

LOADING THE BATTERIES

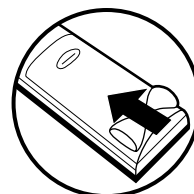
1. Open the battery compartment cover.



2. Insert two AA batteries, with each one oriented correctly.



3. Close the cover.



Notes

- Do not mix alkaline and manganese batteries.
- Do not mix old and new batteries.

VCR/DVD SWITCHING

Since this product comprises VCR and DVD players, it is necessary to select the correct output mode.

SWITCHING TO VCR MODE

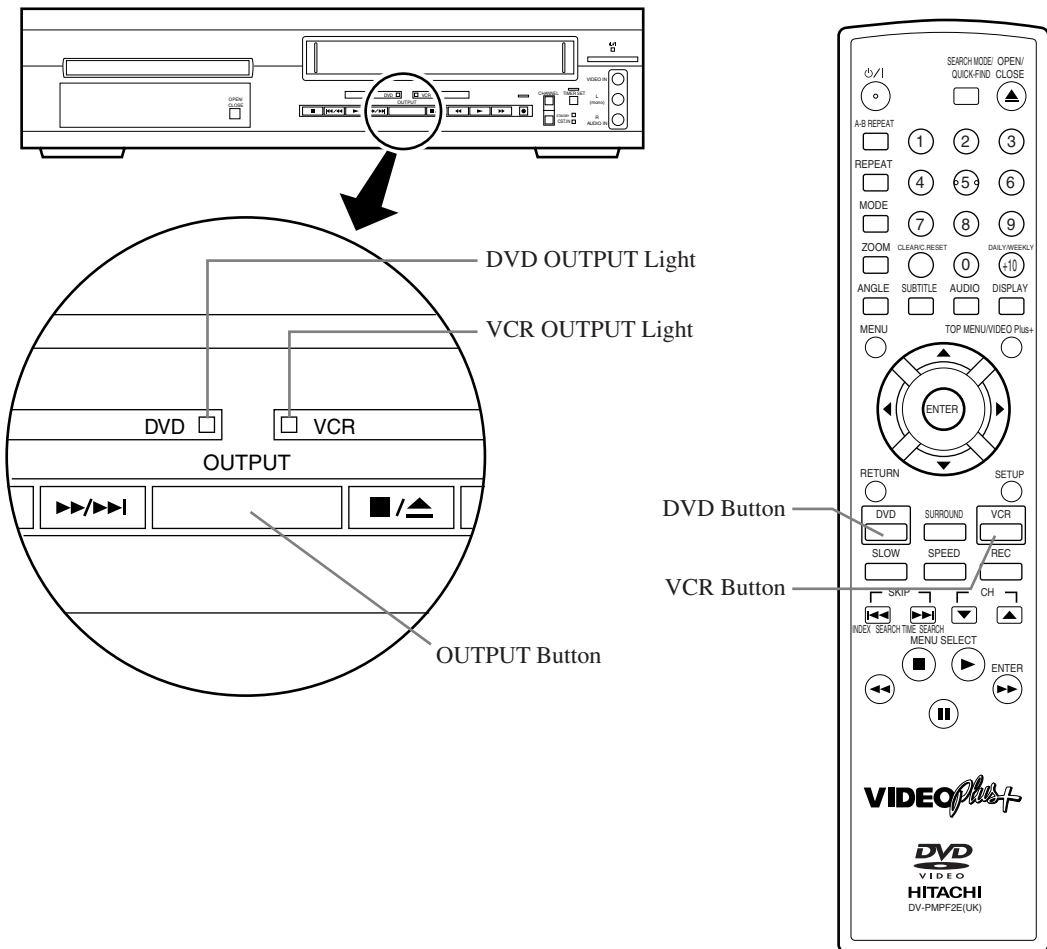
Press the VCR Button on the remote control.
(Verify that the VCR OUTPUT Light is lit.)

SWITCHING TO DVD MODE

Press the DVD Button on the remote control.
(Verify that the DVD OUTPUT Light is lit.)

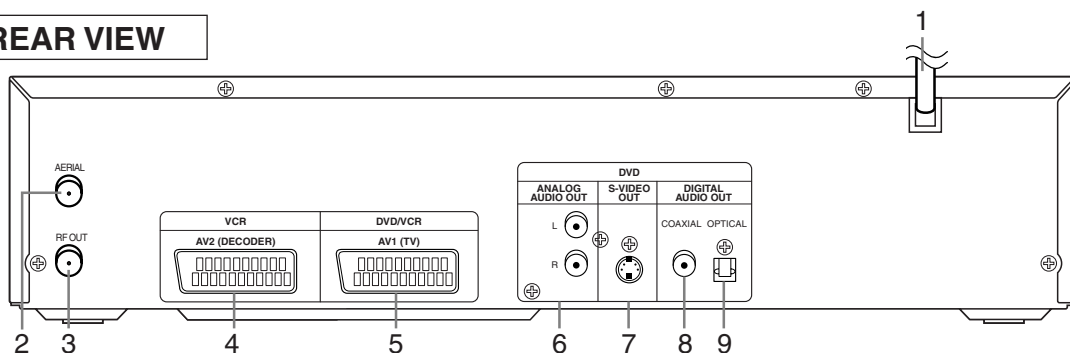
Notes

- Pressing only the OUTPUT Button on the front panel does not switch the mode of the remote control. You always need to select the correct mode on the remote control too.
- The DVD operation Buttons and the VCR operation Buttons work separately.



DESCRIPTION-REAR PANEL

REAR VIEW



1. AC POWER CORD

Connect to a standard AC outlet to supply power to the DVD/VCR.

2. AERIAL Jack

Connect your antenna, Cable Box, or Direct Broadcast System.

3. RF OUT Jack

Use the supplied RF coaxial cable to connect this jack to the ANTENNA IN Jack on your TV.

4. AV2 (DECODER) Socket

Connect 21-Pin scart cable here and to the 21-Pin scart jack of a decoder.

5. AV1 (TV) Socket

Connect 21-Pin scart cable here and to the 21-Pin scart jack of a TV.

6. ANALOG AUDIO OUT Jacks (DVD only)

Connect the supplied audio cables here and to the Audio In jacks of a television or other audio equipment.

7. S-VIDEO OUT Jack (DVD only)

Connect an optional S-Video cable here and to the S-Video In jack of a television.

8. DIGITAL COAXIAL AUDIO OUT Jack (DVD only)

Connect an optional coaxial digital audio cable here and to the Coaxial Digital Audio In jack of a decoder or audio receiver.

9. DIGITAL OPTICAL AUDIO OUT Jack (DVD only)

Connect an optional optical digital audio cable here and to the Optical Digital Audio In jack of a decoder or audio receiver.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

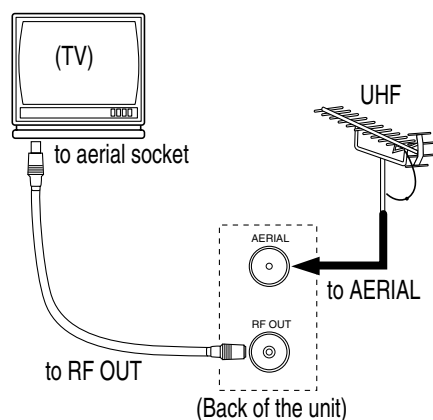
The following show examples of connections commonly used to connect the DVD/VCR to TV and other components.

Notes

- Be sure to turn off the power to all components in the system before connecting another component.
- Refer to the Instruction Manuals for your TV, stereo system and any other components to be connected to the DVD/VCR.

DVD/VCR TO TV CONNECTION

1. Disconnect the TV's power cord from the AC outlet.
2. Disconnect the UHF TV aerial coaxial cable from the TV.
3. Connect the UHF TV aerial coaxial cable to the DVD/VCR.
4. Connect the DVD/VCR to the TV using the coaxial cable.
5. Plug the Power cords of the DVD/VCR and TV into the AC outlets.

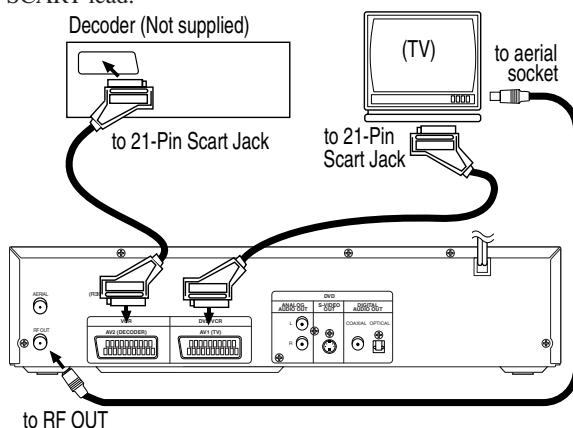


OTHER CONNECTIONS

EURO SCART (AV) SOCKETS

Your DVD/VCR is provided with two Scart sockets which you may connect to other external devices with Scart sockets. We recommend this connection to ensure a better audio and picture quality.

NICAM stereo sound is only achieved when using a SCART lead.



Euro Scart cables are obtainable at your dealer.

AV1 (TV) CONNECTION TO TV

If your TV has Scart sockets, you may connect your DVD/VCR's AV1 (TV) scart socket to the Scart socket on the back of your TV. Please see the instruction manual for your TV.

AV2 (DECODER) CONNECTION FOR OTHER EXTERNAL DEVICES

The second Scart socket AV2 (DECODER) is designated for other external devices, e.g. decoder, another VCR, video camera and so on.

NOTE:

- If you want to connect a TV with Scart socket to your DVD/VCR, the TV must be connected to the DVD/VCR through AV1 (TV). A connection to AV2 (DECODER) will not function correctly.

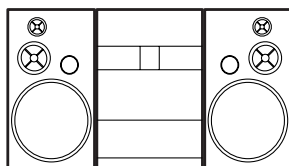
EXTERNAL INPUT MODE

To receive the signal from an external input (decoder, video camera, another VCR etc.), connect to the AV2 (DECODER) socket, and press the CH Buttons (▲/▼) or enter "002" with the Number Buttons to show "AV2" on the TV screen. If you use the AV1 (TV) socket, press CH Buttons (▲/▼) or enter "001" with the Number Buttons to appear "AV1" on the TV screen.

If you use the front AUDIO/VIDEO In Jacks, press the CH Buttons (▲/▼) or enter "003" with number button to show "AV3" on the TV screen.

CONNECTION TO AN AUDIO SYSTEM

Method 1



Stereo system

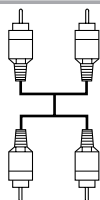
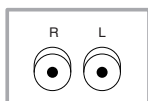
Method 2



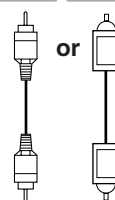
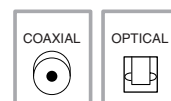
Dolby Digital decoder
or
DTS decoder

AUDIO

Audio Input Jacks



Digital Audio
Input Jacks

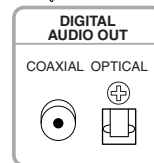


DVD/VCR

Analog Audio Out
(DVD only)



Digital Audio Out

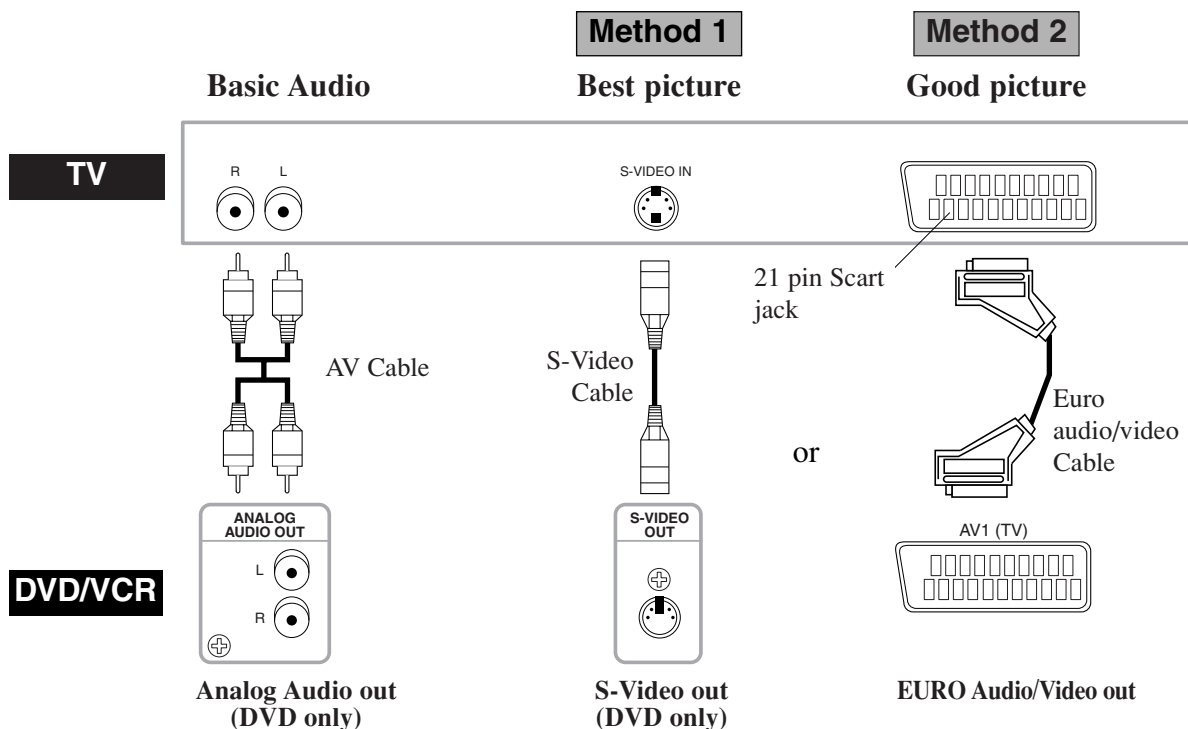


- **Method 1** DVD/VCR + Stereo system
- **Method 2** DVD/VCR + Dolby Digital decoder or DTS decoder

Notes

- If output Dolby Digital audio, connect to a Dolby Digital decoder, and set Dolby Digital to on for audio output in the setup mode. (See page 45)
- If output DTS audio, connect to a DTS decoder, and set DTS to ON for audio output in the setup mode. (See page 45)
- Unless connected to a Dolby Digital decoder, or a DTS decoder, set Dolby Digital or DTS to off for audio output in the setup mode. Playing a DVD using incorrect settings may generate noise distortion, and may also damage the speakers. (See page 45)
- The audio source on a disc in a 5.1 channel Dolby Digital surround format cannot be recorded as digital sound by an MD or DAT deck.
- Set Dolby Digital and DTS to off for audio output in the setup mode for method 1 only. Playing a DVD using incorrect settings may generate noise distortion, and may also damage the speakers. (Refer to page 45 to set ON for Dolby Digital and DTS)
- If you use the OPTICAL jack, remove the protective cap.

CONNECTION TO A TV (FOR DVD/VCR)



- **Method 1** DVD/VCR Player + TV with S-Video Input Jack
- **Method 2** DVD/VCR Player + TV with 21 pin scart Jack

Notes

- If you use the Euro audio/video cable, it is not necessary to connect the analog audio cable.
- Connect the DVD/VCR player directly to a TV. If the A/V cables are connected to a DVD/VCR, pictures may be distorted due to the copy protection system.

HOW TO CONNECT TO A TV WITHOUT AUDIO/VIDEO INPUT JACKS

If your TV does not have a Scart jack, it is still possible to connect this DVD/VCR player to your TV's 75-ohm coaxial antenna terminal using a commercially available Stereo Audio/Video RF Modulator, not included. Connect the audio and video outputs of the DVD/VCR player to the audio and video inputs on the RF Modulator, and then connect the coaxial output of the RF Modulator (usually marked "TO TV") to the 75 ohm coaxial antenna terminal on your TV. Follow the instruction supplied with the RF Modulator for more details.

If your TV's 75 ohm coaxial antenna terminal is already occupied by an antenna or cable box connection, remove that cable from your TV's antenna terminal and reconnect it to the coaxial antenna input terminal of the RF Modulator (usually marked "ANT IN"), then connect the RF modulator to your TV's antenna terminal as described above.

Note

- The picture quality from DVD discs will not be as good if the DVD/VCR player is connected to the TV's antenna terminal through an RF Modulator.

HI-FI STEREO SOUND SYSTEM

This DVD/VCR will record and playback Hi-Fi stereo sound. In addition it has a NICAM stereo sound decoder. This equipment will receive stereo and bilingual broadcasts and there are several ways of recording and playing back the sound.

SELECTING THE SOUND MODE

VCR

You can select each mode by pressing the AUDIO Button on the remote control. Each mode is indicated on the TV screen as following.

- During playback of the recorded tape in Hi-Fi mode:
- Reception of stereo broadcasts:
- During reception of bilingual broadcasts:

Mode	AUDIO OUTPUT		Display on the TV screen	Mode	AUDIO OUTPUT		Display on the TV screen	Mode	AUDIO OUTPUT		Display on the TV screen
Stereo	L	Hi Fi L Audio	STEREO	Stereo	L	L Audio	STEREO	MAIN	L	Main Audio	MAIN
	R	Hi Fi R Audio			R	R Audio			R	Main Audio	
L	L	Hi Fi L Audio	LEFT	L	L	L Audio	LEFT	SUB	L	Sub Audio	SUB
	R	Hi Fi L Audio			R	L Audio			R	Sub Audio	
R	L	Hi Fi R Audio	RIGHT	R	L	R Audio	RIGHT	MAIN SUB	L	Main Audio	MAIN SUB
	R	Hi Fi R Audio			R	R Audio			R	Sub Audio	
Normal	L	Normal Audio	- None -	Monaural	L	L+R Audio	- None -				
	R	Normal Audio			R	L+R Audio					

Notes

- If you play non-Hi-Fi tapes, the DVD/VCR will play automatically in monaural even if you select any mode.
- If the stereo signal becomes weak, the broadcast is automatically recorded in monaural.

PRESET FOR USE

VIDEO CHANNEL SETTING

VCR

Skip This Section When Connected By SCART. Video channel setting will be necessary, if your DVD/VCR is connected to the TV via the coaxial cable.

- Use the remote control for this procedure.

1 Insert a pre-recorded tape into the DVD/VCR.

- The DVD/VCR will turn on and start playback automatically. If playback does not start, press the ► Button.

2 Select and adjust your TV to channel 35.

- If the playback picture appears on the TV screen, continue with step 8.
- If channel 35 is employed for broadcasting, or interference lines appear on the picture, the RF converter must be set to a different channel between CH22 and CH69. Continue with step 3.

3 Press the MENU Button.

4 Press the ► or ■ Button repeatedly to select "INITIAL". Then, press the ►► Button.

MENU
TIMER
SET UP
► INITIAL

5 Press the ► or ■ Button repeatedly to select to "RF OUT". Then, press the ►► Button.

- The RF OUT CH menu will appear.

INITIAL
CH TUNING
CLOCK
► RF OUT

► RF OUT CH 35

6 Press the ► or ■ Button to select a channel which is not used for broadcasts between channel 22 and channel 69 in your area, then press the ►► Button.

7 Press the MENU button to exit.

- Set the TV channel to the RF OUT CHANNEL which was selected on the DVD/VCR. Press ►. A picture from the DVD/VCR will appear on the TV screen. If a picture does not appear, repeat steps 3 to 7 using a different channel which is not used for broadcasts.

8 Press ■ to stop the tape.

Notes

- You may also access the RF OUT CH menu by pressing and holding MENU on the remote control for 3 seconds during power off until the RF OUT CH menu appears.
- If your DVD/VCR and TV are connected using a SCART cable there is no need to have the RF converter operating so it can be switched off and avoid the possibility of interference.

SETTING THE CLOCK

VCR

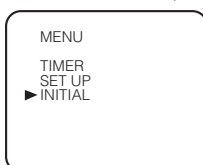
This DVD/VCR incorporates a 24-hour clock. The clock must be set for the Automatic Timer Recording function to operate correctly.

If your DVD/VCR is fitted out with PDC and the PDC signal is available in your area, your DVD/VCR can get the current time from your local PDC broadcast. It keeps track of the time constantly referring to the time broadcasted by your PDC broadcast. If you want to use this feature, refer to “AUTO CLOCK SETTING” in the next section.

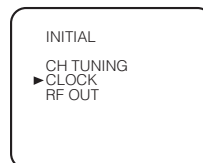
MANUAL CLOCK SETTING

1 Press the MENU Button.

2 Press the ► or ■ Button to select “INITIAL”, then press the ►► Button.

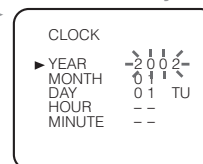


3 Press the ► or ■ Button to select “CLOCK”, then press the ►► Button.



4 Press the ► or ■ Button to select “MANUAL”.

5 Press the ► or ■ Button until the relevant year appears, then press the ►► Button.



6 Likewise, set the relevant month, day, hour, and minute.

7 Press the MENU Button to start the clock.

Notes

- In the steps 5 and 6, you can go back to the item you want to correct by pressing the ◀◀ Button.
- Although seconds are not displayed, they begin counting from 00 when you exit by pressing MENU Button. Use this feature to synchronise the clock with the correct time.
- When unplugging the power-cord or if there is a power failure for more than one minute, you may have to reset the clock.

AUTO CLOCK SETTING

1 Follow the steps through 1 to 3 in “MANUAL CLOCK SETTING”.

2 Press the ► or ■ Button to select “AUTO”.

3 Turn off the DVD/VCR once by pressing the ⏻/⏻ (Standby/Power ON) Button.

- The clock will appear on the TV screen when you turn on the DVD/VCR again.

Notes

- Channel Presetting must be set before the Auto Clock is set.
- The DVD/VCR refers to the channel which was memorised into position 01. The PDC channel must therefore be set to position 01.
- The clock cannot be set automatically if you are not receiving a channel that carries a time signal in your area. In this case, set the clock manually.
- Once the auto clock setting is performed, the DVD/VCR will correct the current time by receiving PDC broadcasts whenever you turn off the DVD/VCR.
- The DVD/VCR will correct the current time automatically at 8:00.
- Between 23:00~1:00, the AUTO CLOCK function does not work even if the DVD/VCR's power is turned off.

TUNING

Tuning of broadcast channels not already preset in the DVD/VCR can be performed in two ways.

AUTOMATIC TUNING

- By “AUTOMATICALLY” tuning channels and placing them in sequential order in the DVD/VCR's memory i.e. the first channel found will be memorised into the DVD/VCR's channel position 1, the second channel found will be memorised into the DVD/VCR's channel position 2 and so on.
- Execution of the “Automatic” tuning cancels all the preset channels. DO NOT use this feature if you intend to use some of the pre-tuned channels. Use the “Manual” tuning function to tune in the additional channels you require.

MANUAL TUNING

- Each channel is tuned manually and individually. Follow the steps laid out in the “MANUAL TUNING” section.

Before you preset Channel ...

- It is necessary to set the video channel if your DVD/VCR is connected to the TV via the coaxial cable, and TV channel 35 is employed for broadcasting, or interference lines appear on the picture. Please refer to “Video Channel Setting”.

AUTOMATIC TUNING

VCR

You can programme the tuner to scan only the channels that you can receive in your area.

- Use the remote control for this procedure.

1 Turn on the TV and select the TV channel to the video channel on the TV.

2 Press the MENU button.

3 Press the ► or ■ Button to select “INITIAL”, then press the ►► Button.

MENU
TIMER
SET UP
► INITIAL

4 Press the ► or ■ Button to select “CH TUNING”, then press the ►► Button.

INITIAL
► CH TUNING
CLOCK
RF OUT

5 Press the ► or ■ Button to select “AUTO”, then press the ►► Button.

CH TUNING
► AUTO
MANUAL
MOVE

- The tuner scans and memorises all the active channels in your area. After scanning, the tuner stops on the lowest memorised channel.

To Select a Desired Channel

You can select a desired channel by using the CH Buttons (▲/▼), or directly pressing the Number Buttons on the remote control.

- Enter a channel numbers as a two-digit number for the quickest results. For example, to select channel 6, press 0 and 6. If you only press 6, channel 6 will be selected after a brief delay.
- You can only select channels 1–99.

MANUAL TUNING

VCR

- Use the remote control for this procedure.

1 Press the MENU Button.

2 Press the ► or ■ Button to select “INITIAL”, then press the ►► Button.

MENU
TIMER
SET UP
► INITIAL

3 Press the ► or ■ Button to select “CH TUNING”, then press the ►► Button.

INITIAL
► CH TUNING
CLOCK
RF OUT

4 Press the ► or ■ Button to select “MANUAL”, then press the ►► Button.

CH TUNING
► AUTO
MANUAL
MOVE

5 Press the ► or ■ Button to select “POSITION”, then press the ►► Button.

MANUAL
► POSITION
CHANNEL
DECODER
SKIP

- When a weak signal is received in Manual Tuning mode, you can change the background to solid blue or the static screen by pressing the C. RESET Button.

6 Press the Number, ►, or ■ Button to select your desired position number, then press the ►► Button.

- You can select position number 01-99.
- If [ON] appears on the right side of “SKIP”, press the ► or ■ Button to point to “SKIP”. Then, press the ►► Button to select [OFF].
- If you want to remove scrambled signals, press the ► or ■ Button repeatedly to point to “DECODER”. Then, press the ►► Button to select [ON].

7 Press the ► or ■ Button to select “CHANNEL”, then press the ►► Button.

8 Press the ► or ■ Button to start scanning.

- The DVD/VCR tuner will begin to search up or down automatically. When a channel is found, the DVD/VCR will stop searching and the picture will appear on the TV Screen.
- You can select desired channel number by using the Number Buttons. You must refer to the channel plan and press three digits to select the channel number. (To select channel 24, first press the “0” Button and then press “2” and “4”).
- If this is the channel you want, press the ►► Button.

Channel Plan	
CH Indication	TV Channel
01 – 10	IRA-IRJ, gap
21 – 69	E21 – E69
74 – 78	S01 ~ S03, X, Y
80 – 100	S1 – S20, gap
121 – 141	S21 – S41

9 Press the MENU Button to exit.

Note

To confirm that a channel has been added, press the CH Buttons (▲/▼).

TO SKIP A PRESET CHANNEL

VCR

The channels you can no longer receive or seldom watch can be set to be skipped when you access channels the CH Buttons (▲/▼).

- Use the remote control for this procedure.

1 Press the MENU Button.

2 Press the ► or ■ Button to select "INITIAL", then press the ►► Button.

MENU
TIMER
SET UP
► INITIAL

3 Press the ► or ■ Button to select "CH TUNING", then press the ►► Button.

INITIAL
► CH TUNING
CLOCK
RF OUT

4 Press the ► or ■ Button to select "MANUAL", then press the ►► Button.

CH TUNING
AUTO
MANUAL
► MOVE

5 Press the ► or ■ Button to select "POSITION", then press the ►► Button.

6 Press the Number, ►, or ■ Button to select relevant position number, then press the ►► Button.

7 Press the ► or ■ Button to select "SKIP", then press the ►► Button to select [ON].

MANUAL
POSITION P08
CHANNEL 008
DECODER [OFF]
► SKIP [ON]

- To memorise the channel again, press the ►► Button "ON" will change to "OFF".

8 Press the MENU Button to exit.

Note

To confirm that a channel has been deleted, press the CH Buttons (▲/▼).

CHANNEL ORDER

VCR

Your TV stations will not necessarily be stored in the usual order: BBC1, BBC2, ITV, CH4 and CH5.

You can arrange the channels in any order you want as follows.

- Use the remote control for this procedure.

1 Press the MENU Button.

2 Press the ► or ■ Button to select "INITIAL", then press the ►► Button.

MENU
TIMER
SET UP
► INITIAL

3 Press the ► or ■ Button to select "CH TUNING", then press the ►► Button.

INITIAL
► CH TUNING
CLOCK
RF OUT

4 Press the ► or ■ Button repeatedly to select "MOVE", then press the ►► Button.

CH TUNING
AUTO
MANUAL
► MOVE

5 Press the ► or ■ Button repeatedly to select the position number you want to change the channel, then press the ►► Button.

MOVE
P01: 01 P06: 06
P02: 02 P07: 07
P03: [03] P08: 08
P04: 04 P09: 09
P05: 05 P10: 10
Position Channel
Number Number

- You cannot select a position number where "- -" appears next to the number. This is because SKIP is set to [ON] for this position number.
- When a weak signal is received in Channel Order mode, you can change the background to static blue by pressing the C. RESET Button. If you press the button again, the background will return to the static screen.

6 Press the ► or ■ Button repeatedly until the channel move to another position number, then press the ►► Button.

MOVE
P01: 01 P06: 06
P02: 02 P07: 07
P03: 03 P08: 08
P04: 04 P09: 09
P05: 05 ►P10: [10]

7 Press the MENU Button to exit.

BASIC OPERATIONS

PLAYBACK

VCR

1 Turn on the TV and select the video channel on the TV.

2 Insert a prerecorded tape.

- The DVD/VCR will turn on automatically. If the erase-protection tab has been removed, the DVD/VCR will start playback automatically.

3 Press the ► Button to begin playback.

TRACKING ADJUSTMENT

- Tracking adjustment will be activated automatically (Digital Tracking function) when you start playback. To adjust the tracking manually, press the CH Buttons (▲/▼).
- you can reduce the noise lines by pressing the CH Buttons (▲/▼) in Slow mode, too. Slow tracking adjustment is not set automatically.
- In the Still mode, press the SLOW Button, and press the CH Buttons (▲/▼) until the streaks disappear. To return to the Still mode, press the ■ Button again.

IF A TAPE IS ALREADY IN THE DVD/VCR

Using the buttons on the DVD/VCR

Just press the ► Button on the DVD/VCR. Power will automatically turn on and playback will start. (Direct Button Operation)

Using the buttons on the remote control

Press the ⏻/I (Standby/Power ON) Button to turn on, and then press the ► Button.

4 Press the ■ Button to stop playback.

SPEED SEARCH

VCR

1 During playback, press the ►► or ◀◀ Button in the SP or LP modes to view a videotape at a high speed in either a forward or reverse direction. In this mode, the sound will be muted.

2 Press the button again, the DVD/VCR will now search in super high speed. (in the LP mode only).

3 Press the ► Button to return to normal playback.

STILL PICTURE

VCR

Press the ■■ Button during playback to view a still picture on the TV screen.

- You can advance the picture by one frame by pressing the the ■■ Button repeatedly during the STILL mode.
- When the picture begins to vibrate vertically, stabilize the picture by pressing the CH Buttons (▲/▼) in the STILL mode.
- After the DVD/VCR has been in Still mode for 5 minutes, it will stop automatically to protect the tape and the video head.

<Note for "Speed search" and "Still Picture">

- Usually there will be video "noise" lines (black and white streaks or dots) on the screen. This is normal. The still picture will, in addition to containing the "noise" lines, be black and white. This is not a fault of the machine but merely a by-product of the technology involved in producing a DVD/VCR with LP mode.

SLOW MOTION

VCR

- Press the SLOW Button to reduce the playback speed. The DVD/VCR mutes the sound during slow motion. You can control the speed by pressing the ►► (faster) or ◀◀ (slower) Button. Press the ► Button to return to normal playback.
- If it is left in the Slow mode for more than five minutes, the DVD/VCR will automatically switch to the Stop mode.

VIEWING AND RECORDING THE SAME PROGRAMME

- 1 Insert a cassette tape with its erase prevention tab in place.

(If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

- 2 Press the Number or CH Buttons (▲/▼) to select the channel to be recorded.

- 3 Press the SPEED Button to select the tape speed (SP/LP).

- 4 Press the REC Button to begin recording.
- The “REC” indicator on the display comes on.

- 5 Press the ■ Button when recording is completed.

SKIPPING UNWANTED PROGRAMME MATERIAL DURING RECORDING

- 1 Press the || Button when you want to temporarily halt recording.

- You can check the remaining pause time with ■ marks on the TV screen. Each ■ mark represents one minute. After five minutes, the DVD/VCR will automatically switch to the Stop mode to prevent tape damage.

- 2 Press the || or REC Button to resume recording.

RECORDING ONE PROGRAMME WHILE VIEWING ANOTHER

You can record one programme while viewing another. To start recording, follow steps 1 to 4 under “Viewing and Recording the same Programme”. Then, set the TV to the channel you want to watch.

TO MONITOR THE PROGRESS OF YOUR RECORDING

Select the video channel on the TV.

ASSEMBLE FUNCTION

- You can record in continuation from previous programme on a pre-recorded tape.

- 1 Insert a pre-recorded tape. Press the ► Button to start playback.

- 2 Press the || Button at the desired point on the tape.

- 3 Press the REC Button. The DVD/VCR will be the recording pause mode.

- 4 Press the CH Buttons (▲/▼) to select the channel to be recorded .

- 5 Press the REC or || Button. The recording will begin.

- 6 Press the ■ Button when recording is completed.

ADVANCED OPERATIONS

OTR (ONE TOUCH RECORDING)

VCR

This function enables you to set the duration of a recording simply by pressing the REC button on the DVD/VCR.

1 Follow steps 1 to 3 in "VIEWING AND RECORDING THE SAME PROGRAMME" section.

2 Press the REC Button on the DVD/VCR repeatedly until the desired recording length appears.

0:30 → 1:00... → 7:30 → 8:00
↑ REC (Normal recording) ↓

- Recording stops when 0:00 is reached.

TO CHECK TIME REMAINING DURING AN OTR
Press the DISPLAY Button.

TO CHANGE THE RECORDING LENGTH DURING AN OTR

Press the REC Button until the desired length appears.

TO STOP AN OTR BEFORE RECORDING IS FINISHED

Press the ■ Button.

TO CANCEL THE OTR BUT CONTINUE RECORDING

Press the REC Button repeatedly until "REC" appears in the upper left corner of the TV screen.

- If a tape ends during OTR, the DVD/VCR will stop, eject the tape, and switch to the DVD mode automatically as the TIMER SET light blinks. (If the DVD power is off, the DVD/VCR will become STANDBY status).
- When OTR is finished, the TIMER SET Light blinks. To use the DVD/VCR again, press the TIMER SET Button on the DVD/VCR.

AUTO REPEAT PLAYBACK

VCR

The DVD/VCR has an auto repeat function that allows you to repeat a tape indefinitely without touching ► Button.

- Use the remote control for this procedure.
- Insert a pre-recorded tape.

1 Press the MENU Button.

2 Press the ► or ■ Button to select "SET UP", then press the ►► Button.

MENU
TIMER
► SET UP
INITIAL

3 Press the ► or ■ Button to select "AUTO REPEAT".

SET UP
AUTO RETURN
► AUTO REPEAT
PICTURE [NORMAL]

4 Press the ►► Button so that "ON" appears next to "AUTO REPEAT" on the TV screen.

- When in Stop mode, Auto Repeat mode will start automatically.

If the on-screen menu still remains, press MENU to exit.

Notes

- Once you select the Auto Repeat mode, it stays in effect even after you turn off DVD/VCR.

TO STOP PLAYBACK

Press the ■ Button.

TO EXIT THE AUTO REPEAT MODE

Repeat steps 1 to 3. Then, press the ►► Button.

"ON" will then disappear from the menu. Press the MENU button to exit.

PICTURE SELECT

VCR

This function enables you to select the picture quality of a tape.

- Use the remote control for this procedure.

1 Press the MENU Button.

2 Press the ► or ■ Button to select "SET UP", then press the ►► Button.

MENU
TIMER
► SET UP
INITIAL

3 Press the ► or ■ Button to select "PICTURE".

SET UP
AUTO RETURN
AUTO REPEAT [ON]
► PICTURE [NORMAL]

4 Press the ►► Button until the desired mode (NORMAL, SOFT, or SHARP) is indicated on the TV screen.

Note

Once you select the Picture Select mode, it stays in effect even after you turn off the DVD/VCR.

AUTOMATIC OPERATION

VCR

AUTOMATIC REWIND&EJECT

When the end of a tape is reached during recording, playback, or fast-forward, the tape will automatically rewind to the beginning. After that, the DVD/VCR will eject the tape.

- The tape will not auto-rewind during timer recording or One Touch Recording.

TAPE EJECT

A tape can be ejected with the DVD/VCR power on or off (but the DVD/VCR must be plugged in).

- If a timer recording is set, you have to press the **TIMER SET** Button first, and then press the **■/▲** (STOP/EJECT) Button on the DVD/VCR to eject the tape. To activate the Timer Recording again, Insert a tape and then press the **TIMER SET** Button.

REAL TIME TAPE COUNTER

VCR

- This shows the elapsed recording or playback time in hours, minutes, and seconds. (Nothing is shown in the case of blank portion)
- The “-” indication will appear when the tape is rewound further than the tape counter position “0:00:00”.

TIMER RECORDING

VCR

You may programme the DVD/VCR to start and end a recording while you are away. You can set eight programmes to record on specific days, daily or weekly within a 1 year period.

- Use the remote control for this procedure.
- Insert a cassette tape with its erase prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

1 Press the **MENU** Button.

2 Press the **▶** or **■** Button to select “TIMER”, then press the **▶▶** Button.

MENU
▶ **TIMER**
SET UP
INITIAL

Notes

If you have not set the clock yet, “CLOCK” setting menu appears. If so, follow the steps outlined in the “Setting the Clock” section. Then, set the timer.

- When you press the **▶▶** Button after pressing the **▶** or **■** Button during steps 3 to 10, the input mode will move to the next step.
- If you do not press the **▶▶** Button within 5 seconds of setting an item, the input mode will move to the next step.
- Press the **◀◀** Button to go back one step from the current setting during steps 4 to 10. If the **◀◀** Button is pressed when the **TIMER NUMBER** is flashing, the entire programme contents will be erased.

- #### 3 Programme number flashes. Press the **▶** or **■** Button repeatedly until the desired programme number appears. Then, press the **▶▶** Button.

▶ **TIMER NUMBER**
DATE 2/1
START ---
END ---
CHANNEL ---
SPEED ---
PDC ---

- #### 4 Select once, daily, everyday, or weekly recording.

For once-only recording: Press the **▶** or **■** Button repeatedly until the relevant month appears.

For daily recording: To record a TV programme at the same time on the same channel from Monday through Friday. While the month digit is flashing, press the **▶** or **■** Button repeatedly to select “MO-FR”.

For everyday recording: To record a TV programme at the same time on the same channel every day. While the month digit is flashing, press the **▶** or **■** Button repeatedly to select “MO-SU”.

For weekly recording: To record a TV programme at the same time on the same channel every week. While the month digit is flashing, press the **▶** or **■** Button repeatedly to select “W-MO” (Example: every monday).

- #### 5 For once-only recording only : Press the **▶** or **■** Button repeatedly until your desired day appears.

- #### 6 Press the **▶** or **■** Button repeatedly until the relevant start hour appears. Next, enter the minute digit.

- #### 7 Press the **▶** or **■** Button repeatedly until the relevant end hour appears. Next, enter the minute digit.

- #### 8 Press the **▶** or **■** Button repeatedly until the relevant channel number appears.

- #### 9 Press the **▶** or **■** Button repeatedly until your the desired tape speed appears.

- #### 10 Press the **▶** or **■** Button repeatedly to set PDC “ON” or “OFF”.

- The Programme Delivery Control (PDC) is a very convenient system which assures that the TV programmes you have programmed for timer recording will be recorded exactly from beginning to end (see page 29).

- #### 11 Press the **▶▶** Button.

Programme 1 is now completed.

- #### 12 Press the **MENU** Button to exit.

To set another timer programme, repeat steps 3 to 11.

- #### 13 Press the **TIMER SET** Button to activate the timer.

- The **TIMER SET** light comes on.
- As the **TIMER SET** light comes on the DVD/VCR becomes **STANDBY** status, and switches to DVD mode automatically.
- When all timer recordings are finished, the **TIMER SET** light will flash. To use the DVD/VCR again as usual, press the **TIMER SET** Button to disable the flashing **TIMER SET** light, then Press the **DVD** or the **VCR** Button to choose **DVD** or **VCR** mode, then continue with the other features as described in this manual.

TO STOP A TIMER PROGRAMME WHICH HAS ALREADY STARTED

- 1 Press the **■** (STOP) Button on the DVD/VCR.

Note

The **■**/**▲** Button on the remote control will not function in the Automatic Timer Recording mode.

TO CORRECT TIMER PROGRAMMES

If you want to correct an automatic timer after you finished setting programme,

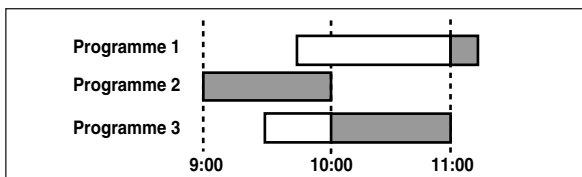
- 1 Repeat steps 1 to 3 in the "TIMER RECORDING" section.
- 2 Select the setting you want to change using the **▶▶** or **◀◀** Button.
- 3 Enter the correct numbers using the **▶** or **■** Button.
- 4 Press the MENU Button to exit.
- 5 Press the TIMER SET Button to return to timer stand-by mode.

TO CANCEL OR CHECK THE START/END TIME

- 1 Repeat steps 1 to 2 in the "TIMER RECORDING".
- 2 Select a programme number you want to check using the **▶** or **■** Button. The details of selected programme appears on the TV screen. You may cancel the entire programme by pressing the **◀◀** Button.
- 3 Press the MENU Button to exit.

AVOID OVERLAP OF TIMER PROGRAMMES

A timer programme does not work while another programme is under execution.



HINTS FOR TIMER RECORDING

VCR

- If there is a power failure or the DVD/VCR is unplugged for more than 1 minute, the clock setting and all timer settings will be lost.
- If a tape ends during TIMER RECORDING, the DVD/VCR will stop, eject the tape, and switch to the DVD mode automatically as the TIMER SET light blinks. (If the DVD power is off, the DVD/VCR will become STANDBY status).
- If a tape is not in the DVD/VCR or does not have a safety tab, the TIMER SET light flashes and timer recording will not operate. Please insert a recordable tape.
- When timer recordings are set, the TIMER SET light will come on. To use the DVD/VCR as usual until the time for the recording, press the TIMER SET Button so that the TIMER SET light disappears. Press the DVD/VCR Button to choose VCR or DVD modes, then continue with the other features as described in this manual.

TIMER RECORDING USING THE VIDEO Plus+® SYSTEM

VCR

You can programme the timer using the PlusCode programming numbers that are printed in TV guide magazine. You can set eight programmes to record.

- Use the remote control for the this procedure.
- Insert a cassette tape with its erase prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

1 Press the VIDEO Plus+ Button.

PlusCode
No. : 123456789

If you have not set the clock yet, "CLOCK" setting menu appears. If so, follow the steps outlined in the "Setting the Clock" section. Then, set the timer.

2 Press the Number Buttons to set the PlusCode number of the programme you want to record.

PlusCode
No. : 123456789

- Press the ◀◀ Button to go back one digit from current digit while you set the PlusCode number.

3 Select once, daily, everyday, or weekly recording.

For once-only recording:

Press the VIDEO Plus+ Button.

For daily recording: To record a TV programme at the same time on the same channel from Monday through Friday. Press the DAILY/WEEKLY Button repeatedly to select "DAILY (MO-FR)", then, press the VIDEO Plus+ Button.

For everyday recording: To record a TV programme at the same time on the same channel every day. Press the DAILY/WEEKLY Button repeatedly to select "DAILY (MO-SU)", then, press the VIDEO Plus+ Button.

For weekly recording: To record a TV programme at the same time on the same channel every week. Press the DAILY/WEEKLY Button repeatedly to select "WEEKLY", then, press the VIDEO Plus+ Button.

Note

- If the PlusCode number is not available, it will be cleared automatically when you press the VIDEO Plus+ Button. Enter the correct PlusCode number and press the VIDEO Plus+ Button again.
- If the PlusCode number flashes when you press the VIDEO Plus+ Button, this means that the PlusCode number you entered was incorrect or the timer recording you just programmed and another timer recording overlap.

4 Confirm the channel number, then, press the ►► Button.

TIMER NUMBER 1
DATE 06/05 SA
START 19:30
END 20:30
► CHANNEL 16
SPEED SP
PDC OFF

- If your local channel information is programmed in DVD/VCR's memory, your local channel number appears automatically.
- If your local channel information is not programmed in DVD/VCR's memory, "—" or an incorrect channel number may appear. In this case, press the ► or ■ Button repeatedly until your desired channel number appears. Then, press the ►► Button.
- When you select the channel number using the ► or ■ Button, it memorises in DVD/VCR's memory.

5 Press the ► or ■ Button repeatedly until the desired tape speed appears.

TIMER NUMBER 1
DATE 06/05 SA
START 19:30
END 20:30
CHANNEL 16
► SPEED SP
PDC OFF

6 Press the ► or ■ Button to choose "ON" or "OFF".

- The Programme Delivery Control (PDC) is a very convenient system which assures that the TV programmes you have programmed for timer recording will be recorded exactly from beginning to end (see page 29).

7 Press the MENU Button to exit.

8 Press the TIMER SET Button to activate the timer.

The TIMER SET light on the display comes on.

PDC(Programme Delivery Control)

VCR

The Programme Delivery Control (PDC) is a very convenient system which assures that the TV programmes you have programmed for timer recording, will be recorded exactly from beginning to end, even if the actual broadcasting time differs from the scheduled time due to delayed start or extension of the programme duration. Also, if a programme is interrupted and, for example, some special news is broadcast, the recording will also be interrupted automatically and resumed when the programme continues.

When the PDC signal drop out because the broadcast signal is weak, or when a broadcasting station does not transmit a regular PDC signal, the timer recording will be performed in the normal mode (without PDC) even if it was programmed for PDC. When the starting time of the PDC timer recording is from 0:00 to 3:59 on a given day, the PDC function operates from 20:00 on the previous day to 4:00 on the following day. When the starting time of the PDC timer recording is from 4:00 to 23:59 on the given day, the PDC function operates from 0:00 on the day to 4:00 on the following day. This means that if the relevant programme is broadcasted within this period, it will be recorded correctly. If the timer is not programmed correctly, the incorrect timer setting stays in effect unless you cancel it. To cancel the incorrect timer setting, refer to "TO CANCEL OR CHECK THE START/END TIME" on page 28.

AUTO RETURN

VCR

If there are any remaining programmes including Daily, Everyday, & Weekly, AUTO RETURN will not operate.

1 Press the MENU Button.

2 Press the ► or ■ Button repeatedly to point to "SET UP", then press the ►► Button.

3 Press the ► or ■ Button to point to "AUTO RETURN", then press the ►► button.

• [AUTO] will appear next to "AUTO RETURN".

4 Press the MENU Button.

TO WATCH THE RECORDED TIMER PROGRAMME

Press the TIMER SET Button to cancel the Timer Stand-by. Then, Select VCR mode by pressing the VCR Button on your remote. Press the ► Button.

QUICK-FIND

VCR

This function enables you to search and confirm the contents of the recorded programme(s) using the index mark.

- Use the remote control for this procedure.
- The tape must be fully rewound.

1 Press the QUICK-FIND Button.

TO SKIP TO THE BEGINNING OF NEXT PROGRAMME

Press the QUICK-FIND Button.

TO VIEW AT NORMAL SPEED

Press the ► Button. The Quick-Find is cancelled.

Notes

- This function will not operate in the Recording mode.
- When you want to cancel the Quick-Find while in progress, press the ■ Button.
- When the end of a tape is reached during the Quick-Find, the tape will automatically rewind to the beginning. After rewinding finishes, the DVD/VCR will eject the tape.

TIME SEARCH

VCR

If a tape includes both programmes recorded in the PAL system and ones recorded in the NTSC system, this function may not be operated correctly.

- Use the remote control for this procedure.

1 Press the TIME SEARCH Button (►►|).

2 Press the ►, ■ or TIME SEARCH Button (►►|) repeatedly until the desired time appears.

3 Press the ◀◀ or ►► Button.

The DVD/VCR begins rewinding or fast forwarding to the specified point.

When 0:00 is reached, the DVD/VCR will start playback automatically.

Notes

- Time Search can be set up to 9 hours 59 minutes (9:59). When you press the TIME SEARCH Button (►►|) in step 2, it will increase the time by 15 minutes. In this case, Time Search can be set up to 9 hours 45 minutes (9:45).
- This function will not operate in the Recording mode.
- Operations must be followed up within 30 seconds, from steps 2 to 3. Otherwise the Time Search mode will be cancelled.
- To exit the Time Search mode, press the MENU Button in step 2. Or press the ■ Button after step 3.

INDEX SEARCH

VCR

• The index mark will be made automatically when REC is pressed. It will also be marked at the starting point of Timer recording and OTR.

• The index mark is not recorded if the || Button is pressed and released during recording.

• The time gap between index marks on the tape should be greater than 1 minute for SP recording and 2 minutes for LP recording.

• Use the remote control for this procedure.

1 Press the INDEX SEARCH Button (|◀◀).

2 Press the ►, ■ or INDEX SEARCH Button (|◀◀) repeatedly until the number of programmes that you want to skip appears.

3 Press the ◀◀ or ►► Button.

The DVD/VCR begins rewinding or fast forwarding to the beginning of desired programme.

When the preset programme is reached, the DVD/VCR will start playback automatically.

Notes

- Index Search can be set up to 20.
- This function will not operate in the Recording mode.
- Operations must be followed up within 30 seconds, from steps 2 to 3. Otherwise the Index Search mode will be cancelled.
- To exit the Index Search mode, press the MENU Button in step 2. Or press the ■ Button after step 3.

COPYING A VIDEO TAPE

VCR

English

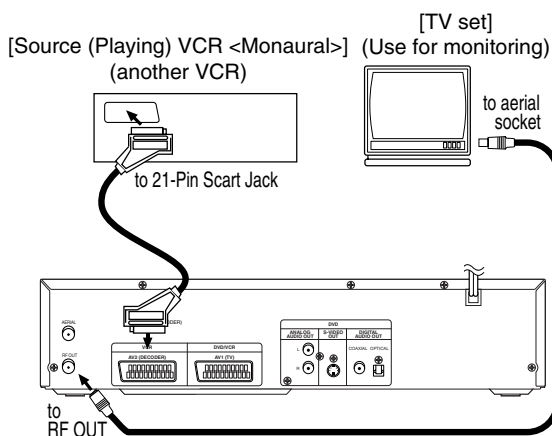
You can make copies of videotapes made by friends or relatives for your own enjoyment.

WARNING:

Unauthorized recordings of copyrighted video tapes may be an infringement of copyright laws.

Connect the recording DVD/VCR (this unit), playing VCR (another VCR) and your TV as outline in the following diagram.

- 1 Insert a pre-recorded video cassette into the playing VCR.
- 2 Insert a blank video cassette, or one you want to record over, into the cassette compartment of the recording DVD/VCR.
- 3 Press the SPEED Button on the remote control to select the desired recording speed (SP/LP).
- 4 Select "AV2" position on the recording DVD/VCR. See "Other Connections" on page 17.
- 5 Press the REC Button on the recording DVD/VCR.
- 6 Begin playback of the tape in the playback VCR.



Notes

- For best results during dubbing, use the DVD/VCR's front panel controls whenever possible. The remote control might affect the playback DVD/VCR's operation.
- Always use video-quality shielded cables with RCA-type connectors. Standard audio cables are not recommended.
- If video or colour fades in and out, you may be copying a copy guarded video tape.

TO MONITOR THE RECORDING

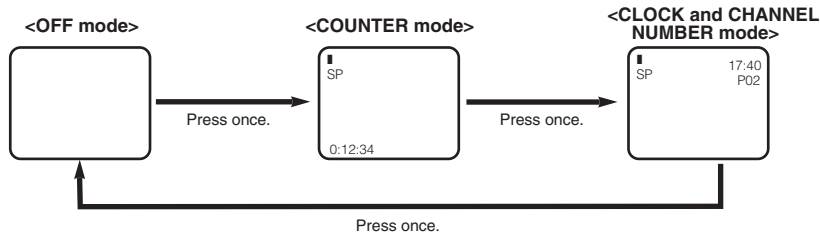
Turn on the TV and select the video channel on the TV.

A STATUS DISPLAY

VCR

To check the Counter, or Clock & Channel number, press the DISPLAY Button. Each time you press the DISPLAY Button, TV screen will change as illustrated:

When you select the channel using the remote control number buttons, select the desired channel (position number).

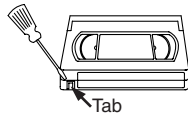


VIDEO CASSETTE TAPE

VCR

This DVD/VCR will operate with any cassette that bears the VHS mark. For best results, we recommend the use of high-quality tapes. Do not use poor quality or damaged tapes.

- You can prevent accidental erasing of a recording by breaking off the erase prevention tab on the back edge of the cassette.
- If you decide to record on the tape again, cover the hole with plastic tape.



TWO DIFFERENT TAPE SPEEDS

Before recording, select the tape speed : SP mode (Standard Play) or LP mode (Long Play).

The table below shows the maximum recording/playback time using E-60, E-120, E-180 or E-240 tapes in each mode.

TYPE OF TAPE	RECORDING/PLAYBACK TIME	
	TAPE SPEED	
	SP MODE	LP MODE
E-60	1 HOUR	2 HOURS
E-120	2 HOURS	4 HOURS
E-180	3 HOURS	6 HOURS
E-240	4 HOURS	8 HOURS

TV COLOUR SYSTEM

VCR

Different countries use different television colour systems. Tapes recorded in the PAL or NTSC system can be played back on this unit. Usually, the picture on the TV screen will be in black and white when you play back a tape that is recorded in a different colour system.

- Tapes recorded in the NTSC system can be played back on this unit and a PAL system TV set. This feature is only available in the SP mode. When playing back such tapes, the picture may roll up or down, shrink vertically and black bars may appear both at the top and bottom of the screen. Adjust the vertical hold control on your TV, if the TV features this control.

PLAYING A DISC

PLAYING A DVD VIDEO OR AN AUDIO CD

DVD

CD

Getting started

Turn on the power of the TV, amplifier and any other components which are connected to the DVD/VCR. (Change the input system to suit the DVD/VCR, and check that the sound volume is correct.)

1 Press the (Standby/Power ON) Button.

- The power will turn on.

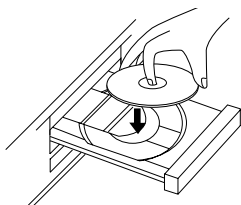
Check that the DVD OUTPUT Light is lit. If not press the DVD Button on the remote control to switch to DVD mode.

2 Press the OPEN/CLOSE () Button.



- The disc loading tray will open.

3 Place a disc into the tray.

- Make sure the disc is sitting properly in the correct recess, with the label side up.



4 Press the Button.

- The tray will close automatically, and playback will then start from the first chapter or the first track of the disc. With some discs, if the tray has been closed by pressing the OPEN/CLOSE () Button, You need to press the  Button to start the disc.
- When you playback the DVD which a title menu is recorded, it may appear on the screen. In this case, refer to “USING THE DVD MENUS” or “USING THE TITLE MENU”.

5 Press the Button to stop play.

Notes

- While the setup menu is shown you can not open or close the tray.
- A “prohibited icon” may appear at the top-right on the TV screen during operation, warning that a prohibited operation has been encountered by the DVD/VCR or the disc.
- If a disc is dirty or has scratches, the pictures may appear distorted and the playback operation may stop. In such cases, clean the disc and unplug the power cord and then plug it again before resuming playback.
- With DVDs that use some titles for playback programme signals, playback may start from the second title, or it may skip these titles.
- During the playback of two layered disc, pictures may stop for a moment. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction.
- When DVD sits idle for more than thirty-five minutes, it will be turned off automatically.



USING THE DVD MENUS





DVD

Some DVDs contain their own menus, such as a guidance menu which describes the contents of the disc or a selection menu for sound, language and other customised settings.

1 Press the MENU Button.

- The DVD menu will appear.

2 Select the desired title.

- Press the Arrow Buttons (, , , ) to change the setting, and then press the ENTER Button.

3 Playback will start from the selected title.

USING THE TITLE MENU

DVD

With a DVD containing a title menu, you can select desired titles from the menu.

1 Press the TOP MENU Button.

- The title menu will appear.
- With some discs, a title menu may appear automatically. In this case, skip to step 2.

2 Select the desired title.

- Press the Arrow Buttons (▼/▲/▶/◀) to select a desired title. And then press the ENTER Button.

CALLING UP A MENU SCREEN DURING PLAYBACK

For DVDs

- Press the MENU Button to call up the DVD menu.
- Press the TOP MENU Button to call up the title menu.

Note

- Contents of menus and corresponding menu operations may vary between discs. Refer to the manual accompanying the disc for details.

PAUSING PLAYBACK OR DISPLAYING A STILL PICTURE

DVD

CD

MP3

1 Press the || Button during playback.

- Playback will pause, with sound muted.



2 Press the ▶ Button to resume playback.



RESUMING PLAYBACK FROM THE POINT WHERE PLAYBACK STOPPED

DVD

CD

1 Press the ■ Button during playback.

- Playback will stop, and then appear the resuming message at the center.

Press 'PLAY' to play from here.
To play the beginning, press 'STOP' first
and then 'PLAY'.

2 Press the ▶ Button. Playback will start from the point where the previous playback session was stopped.



Note

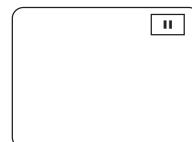
- The resume function can be reset by pressing the ■ Button twice or by opening the disc loading tray.

STEPPING THROUGH FRAMES

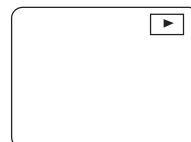
DVD

1 Press the || Button while playback is paused.

- The next picture frame is displayed with sound muted each time the Button is pressed.



2 Press the ▶ Button to resume playback.



FAST FORWARD/REVERSE

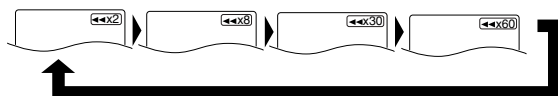
DVD

CD

1 Press the ►► or ◀◀ Button during playback.

- For DVDs pressing the ►► or ◀◀ Button cycles the playback speed in four steps. In case of DVDs, the sound will mute.
- For audio CDs, the playback speed is $\times 16$ fixed.

FR SEARCH ◀◀ Button
FF SEARCH ►► Button



2 Press the ► Button to return to normal playback speed.

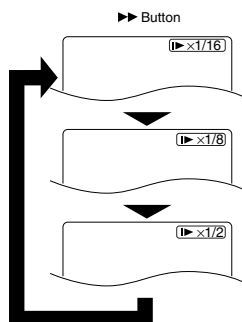
- FAST FORWARD or REVERSE from a TITLE to other TITLES is not possible.
- With some discs, the audio may take a while to be played back after a SEARCH.

SLOW MOTION

DVD

1 Press the ►► Button while playback is paused. (Sound remains muted.)

- Slow motion mode will be activated.
- Pressing the ►► Button cycles the playback speed in three steps. Select the appropriate speed while referring to the speed indication on the screen.



2 Press the ► Button to return to normal playback speed.

Notes

- Slow playback is not available with audio CDs.
- Reverse slow motion is not available.
- Slow playback from a TITLE to other TITLE is not possible.

STARTING FROM A DESIRED TRACK

CD

There are 2 ways you can jump to a desired track.

By using only the Number Buttons.

- 1** Directly enter the desired track number with the Number Buttons when the disc is being played, stopped, or paused.

By using the SEARCH MODE Button.

- 1** Press the SEARCH MODE Button.



- Track search display will show up.

- 2** Enter the desired track number with the Number Buttons (If you are entering a single digit number press "0" first).

- In either way, when you finish entering the number, the selected track will start automatically.

Notes

- If you didn't press "0" before entering the single digit number, you have to press the ENTER Button to go to the desired track.

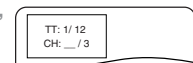
STARTING FROM A DESIRED TITLE OR CHAPTER

DVD

There are 2 ways you can jump to a desired title or a chapter.

By using the SEARCH MODE Button.

- 1** Press the 'SEARCH MODE' Button.



- Title/Chapter search display will show up.

- 2** Press the Number Buttons to enter a desired title or chapter number.

- 3** Enter the desired title or chapter number with the Number Buttons (If you are entering a single digit number press "0" first).

- When you finish entering the number, the selected title or chapter will start automatically.

Notes

- If you didn't press "0" before entering the single digit number, you have to press ENTER to go to the desired title or the chapter.

By using only the Number Buttons.

TITLE SEARCH:

- 1** Directly enter the desired title number with the Number Buttons when the disc is stopped.

CHAPTER SEARCH:

- 1 Directly enter the desired chapter number with the Number Buttons when the disc is being played or paused.
- When you finish entering the number, the selected title or chapter will start automatically.

CD DVD

TRICKS WITH THE SKIP BUTTONS (◀◀/▶▶)

If the SKIP Button ▶▶ is pressed during playback or while playback is paused, the current track/chapter will be skipped and the next track/chapter will start. When the SKIP Button ◀◀ is pressed once, the top of the current track/chapter will be located for replaying. When the SKIP Button ◀◀ is pressed again within 2-seconds after playback begins, the previous track/chapter will be located.

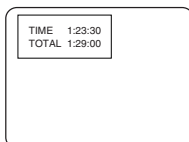
STARTING FROM A DESIRED TIME COUNT

DVD CD

- 1 Press the SEARCH MODE Button twice.

- 2 Press the Number Buttons to set the desired time count.

- **Example:** 1 hour, 23 minutes and 30 seconds
1 → 2 → 3 → 3 → 0



Notes

- In the case of DVD, Time Search in Title is effective. (But Time Search in Chapter is ineffective.)
- In the case of CD, Time Search in Track is effective. (But Time Search in the entire disc is ineffective.)
- Playback from a desired time count is not available with some discs or if the unit is in stop mode.
- If wrong numbers are entered, press the CLEAR/C. RESET Button and re-enter the correct numbers.

MARKER

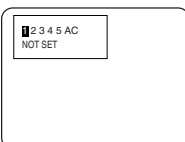
DVD CD

You can define the part to be called back.

- 1 Press the SEARCH MODE Button three times during playback.

Set the marker

- Using the Arrow Buttons (◀/▶), position the cursor on to the marker number shown as “NOT SET”. Press the ENTER Button when the screen to be reviewed appears. The marked time will be displayed. Up to 5 points can be marked.



Call back the marker

- Using the Arrow Buttons (◀/▶), position the cursor on to the marker number to be called back and press the ENTER Button.

Clear the marker

- Using the Arrow Buttons (◀/▶), position the cursor on to the marker number to be cleared and press the C. RESET Button.

To all markers, place the cursor on “AC” (All clear markers) and press the ENTER Button.

- 2 Press the SEARCH MODE Button or the RETURN Button to exit the display.

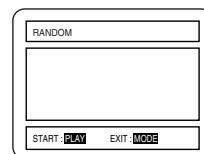
RANDOM (Audio CD)

CD

- 1 Press the MODE Button in stop mode.

- The programme setting menu screen will appear.

- 2 Press the MODE Button again.



- 3 Press the ▶ Button.
Random playback will then start.

Note

- Programme playback is not available during random playback.

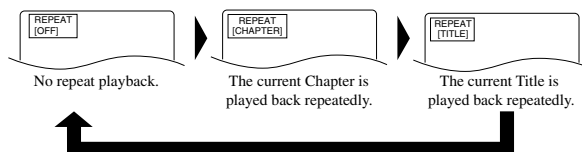
REPEAT

DVD CD

- 1 Press the REPEAT Button during playback.

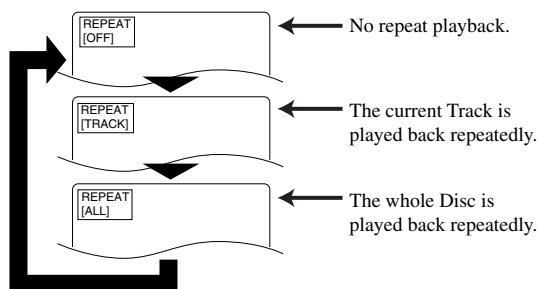
For DVDs

- A single title or chapter is played back repeatedly.
- Pressing the REPEAT Button cycles the display on the screen as follows.



For audio CDs

- The whole disc or a single track is played back repeatedly.
- Pressing the REPEAT Button cycles the display on the screen through Off, Track and All.



If the REPEAT Button is pressed once during program/random playback, the current track is played back repeatedly.

If the REPEAT Button is pressed again, the program/random playback is performed repeatedly.

Notes

- Repeat playback is not available with some discs.
- The REPEAT setting will be cleared when moving to other title, chapter or track.
- Repeat playback is not function during A-B repeat playback.

A-B REPEAT

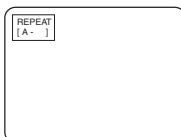
DVD

CD

You can define a section to be played back repeatedly.

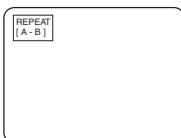
1 Press the A-B REPEAT Button during playback.

- The starting point (A) will then be selected.

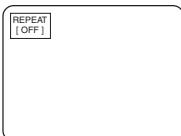


2 Press the A-B REPEAT Button again at the end point (B) of the desired section.

- The selected section will be played back repeatedly.



3 To exit A-B repeat playback, press the A-B REPEAT Button and set it to OFF.



Notes

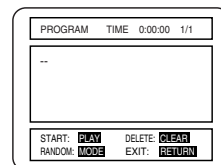
- With DVDs, the A-B repeat section can be set only within the current title.
- With audio CDs, the A-B repeat section can be set within the current track.
- A-B repeat is not available with some scenes in DVD.
- To cancel the A point which was set, press the CLEAR/C. RESET Button.
- A-B repeat playback does not function when title, chapter, or repeat (all) playback has been set.

PROGRAMME(Audio CD)

CD

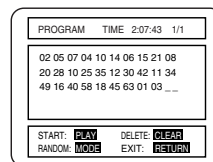
1 Press the MODE Button in stop mode.

- The programme screen will appear.



2 Press the Number Buttons to enter the desired track numbers.

- 50 programmes can be displayed at once on the screen. Press “▼” to go to the next page.



3 Press the ► Button.

- Playback will start in the programmed order.
- While the programme is being played back, ■ works as follows.
- Press the ■ Button once and then the ► Button again, playback will restart from the point where the ■ Button was pressed. (Programme continued)
- Programme will be cleared when you turn the power off.

TO CLEAR THE PROGRAMME

- Press the ■ Button twice, and the programme will be cleared.

Notes

- Adding programs is not possible during programme playback. You must stop the current playback before such operations can be carried out.
- Press the CLEAR/C. RESET Button to cancel a program. The most recently entered programme will then be deleted.
- Up to 99 programs can be entered.
- Playback from a desired track and random playback are not available during programme playback.
- programme settings are cleared when the power is turned off or the disc loading tray is opened.
- Press the MODE Button to check the programmed setting.

ZOOM PLAYBACK (enlargement on-screen)

DVD

Images can be enlarged on the screen to your taste.

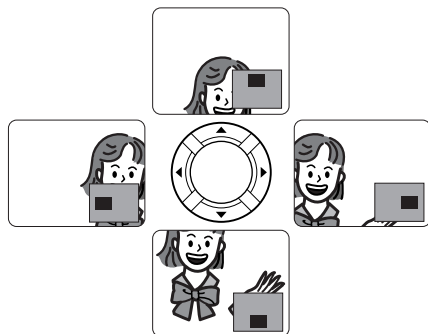
1 Press the ZOOM Button during playback.

- An image will be enlarged at the center of the screen.
- Pressing the ZOOM Button cycles the zooming images in two steps.



2 When the Arrow Buttons (▲/▼/◀/▶) is pressed during zoom play, the part to be zoomed moves.

- The zooming frame can be moved from the center 4 steps to the right. 4 steps to the left. 4 steps to the top. 4 steps to the bottom when 2 time zooming, and 6 steps each when 4 time zooming.
- Current position will be displayed on the right-bottom of the screen. Press the ENTER Button, and the display disappears.



Note

- Zooming function does not work while disc menu is shown.

PLAYING AN MP3 DISC

MP3

1 Insert an MP3 file-recorded disc.

- The MP3 menu screen shows up.
- “+” appears at the head of the album name.
- The player can recognise 255 ALBUMS and TRACKS altogether.
- If all the TRACKS cannot be displayed at once on the screen, “▼” appears to go to the next page. If there is a previous page, “▲” appears on-screen. On the left of “▼”, the current page and the total number of pages are displayed.



2 Press the ► Button after the following operation.

[FIRST PLAY]

Select FIRST PLAY with the Arrow Buttons (▲/▼).

[TRACK]

Select the desired TRACK with the Arrow Buttons (▲/▼).

[ALBUM]

Select the desired ALBUM with the Arrow Buttons (▲/▼), and call the TRACKs with ENTER Button.

- Press the ENTER or the Arrow Button (►) to go to the next hierarchy.
- Press the Arrow Button (◀) to go back to the previous hierarchy.
- Press the TOP MENU Button to go back to the top hierarchy.
- ALBUMS can be played up to the 8th hierarchy.

3 To stop the play, press the ■ Button.

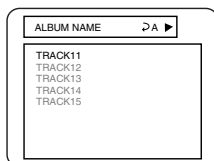
CHANGING THE ON-SCREEN DISPLAY DURING MP3 DISC PLAY

MP3

The information on an MP3 disc in play can be checked.

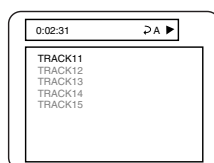
1 Press the DISPLAY Button during playback.

- The TRACK currently in play will be highlighted.



2 Press the DISPLAY Button again.

- The album name being displayed will be replaced by the elapsed time of the track.
- ▶ will be displayed when the repeat play has been selected.
 - T : Track repeat
 - A : Album (folder) repeat
 - D : Disc repeat



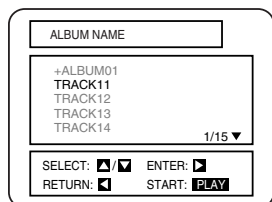
3 Press the DISPLAY Button again, and the display screen disappears.

PLAYING AN MP3 DISC FROM A DESIRED TRACK

MP3

1 Press the SEARCH MODE Button during playback.

- The SEARCH menu shows up.
- The TRACK currently in play or under RESUME ON will be highlighted. In the case of RESUME OFF, the first track of the disc will be highlighted.
- Press the RETURN Button, and the SEARCH menu disappears.



2 Using the Arrow Buttons (▲/▼), select a track to be played. Then press the ▶ Button to start playing.

Notes

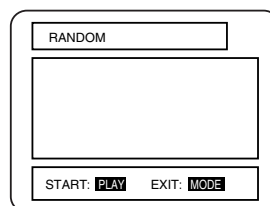
- During play, a desired track can be directly searched. Just type in the TRACK number with the Number Buttons.
- If the typed TRACK number is not available, the “disable” symbol appears and the direct search mode is cancelled.
- Playback cannot be started from a desired time count.

PLAYING AN MP3 DISC AT RANDOM

MP3

1 Press the MODE Button twice in STOP mode.

- The programme setting menu screen will appear.



2 Press the ▶ Button.

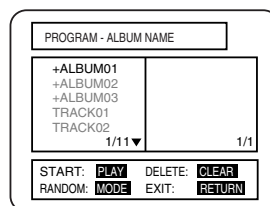
- Random play starts.

PLAYING AN MP3 DISC IN A PROGRAMMED WAY

MP3

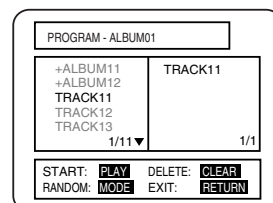
1 Press the MODE Button in STOP mode.

- The programme screen shows up.



2 Use the Arrow Buttons (▲/▼) to select a track. Then press the ENTER Button to save it in a program.

- When an ALBUM name is highlighted, press the ▼ Button, and the next hierarchy shows up.



- Press the Arrow Button (▲) to go back to the upper hierarchy.
- If the entire programme cannot be displayed at once on the screen, “▼” appears to go to the next page.

3 When the disc has been programmed, press the ► Button.

- Programmed play starts.

Notes

- Press the CLEAR/C. RESET Button, and the last-programmed entry will be deleted.
- Press the RETURN Button, and the STOP screen will show up with the programme contents in memory.
- The programme setting will be cancelled when the power is turned off or the disc tray is opened.
- programme will be cleared when you turn the power off.

TO CLEAR THE PROGRAM

- Press the ■ Button twice, and the programme will be cleared.

SETTINGS

CHANGING THE AUDIO LANGUAGE OR SOUND MODE

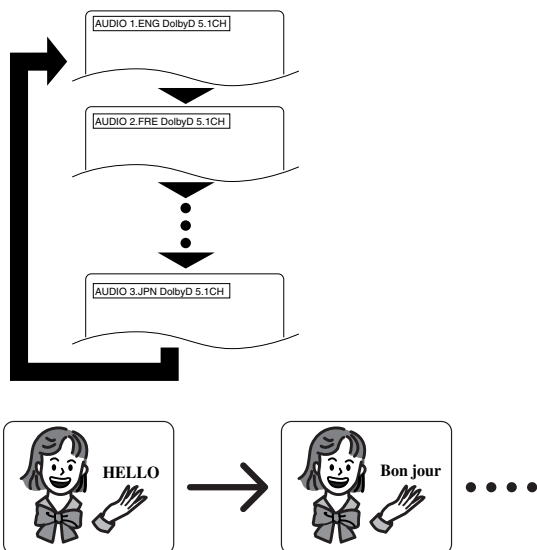
DVD CD

The DVD/VCR has a function which allows you to select the desired audio language and sound mode.

For DVDs

Press the AUDIO Button during playback, and then press the AUDIO Button to select the desired audio language.

- The audio language can be changed if multiple languages are recorded on the DVD being played.



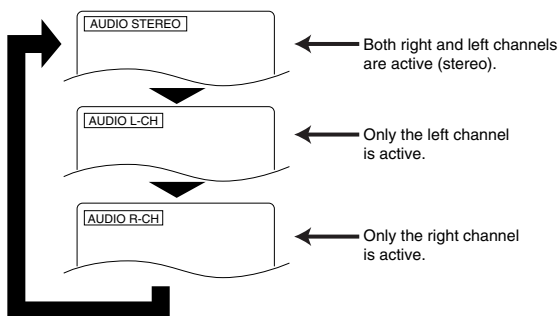
Note

- For some Audio language, three dashes (---) may appear instead of a three-letter abbreviation for the language (ENG, FRE, etc.).

For audio CDs

Press the AUDIO Button during playback.

- Pressing the AUDIO Button cycles the sound mode through STEREO, L-CH and R-CH.



Notes

- Pressing the AUDIO Button may not work on some DVDs with multiple audio languages (e.g. DVDs which allow audio language setting on the disc menu). Operation varies between discs, so refer to the manual accompanying the disc.
- Current audio language and sound mode will be displayed when you press the AUDIO Button at first.
- If a desired language is not shown after pressing the AUDIO Button several times, the disc does not have an audio source in that language.
- The audio language resets to the one which has been selected in the setup mode, every time the power is turned on or discs are replaced. If that language is not available on a disc, a language defined by the disc is selected.
- The screen display will disappear after about 5 seconds.

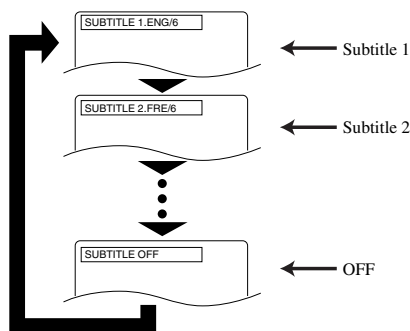
CHANGING THE SUBTITLE LANGUAGE

DVD

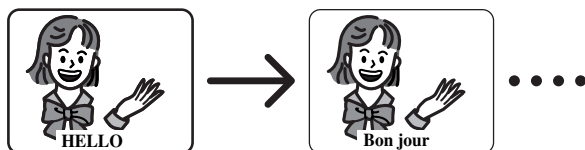
The DVD/VCR has a function which allows you to select the desired language for subtitles.

1 Press the SUBTITLE Button during playback, and then press the SUBTITLE Button to select the desired subtitle language.

- The subtitle language can be changed if the subtitles are recorded in multiple languages on the DVD being played.
- The subtitle language cannot be changed if the subtitles are recorded in a single language on the DVD being played.



- Pressing the SUBTITLE Button cycles the subtitle language from SUBTITLE 1, SUBTITLE 2 and all the languages recorded.
- Current subtitle mode will be displayed when you press the SUBTITLE Button at first.
- Press the SUBTITLE Button, and then press the Arrow Buttons (◀/▶) to set it to on or off.



Notes

- For some Audio language, three dashes (---) may appear instead of a three-letter abbreviation for the language (ENG, FRE, etc.).
- Some discs allow subtitle language setting on the disc menu. (Operation varies between discs, so refer to the manual accompanying the disc.)
- If the desired language is not shown after pressing the SUBTITLE Button several times, the disc does not have subtitles in that language.

- The subtitle language resets to the one which has been selected in the setup mode, every time the power is turned on or discs are replaced. If that language is not available on a disc, a language defined by the disc is selected.
- It may take time to display the subtitles in the selected language.
- The screen display will disappear after about 5 seconds.
- When “SUBTITLE NOT AVAILABLE” appears on-screen, it means no subtitle is recorded on the scene.

CHANGING THE CAMERA ANGLE (Multi-Angle Pictures)

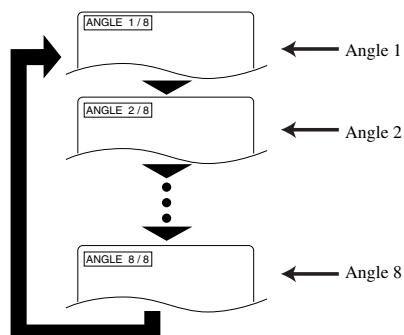
DVD

The DVD/VCR has a function which allows you to select the desired camera angle.

1 Press the ANGLE Button during playback.

- If the disc contains sequences recorded from different camera angles, the angle icon (◻) will appear at the top-right of the screen. You can change the camera angle when the icon appears on the screen.
- The camera angle cannot be changed if the disc does not contain sequences recorded from different camera angles.

2 Press the ANGLE Button while the angle number is shown on the screen.



Notes

- The screen display will disappear after about 5 seconds.
- Current camera angle will be displayed when you press the ANGLE Button at first.

CHANGING THE ON-SCREEN DISPLAY

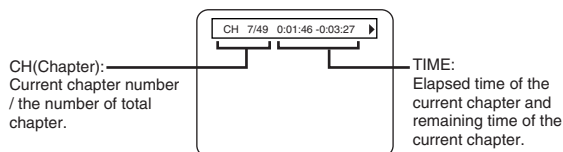
DVD

CD

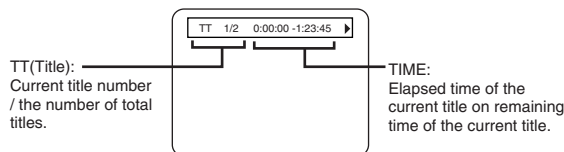
You can check the information about the disc by pressing the DISPLAY Button on the remote control.

For DVDs

- 1 Press the DISPLAY Button during playback.

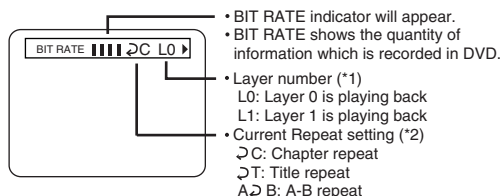


- 2 Press the DISPLAY Button again.



- Use the Number Button to start from a desired chapter.

- 3 Press the DISPLAY Button again.



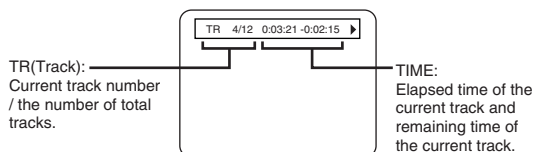
*1) It appears when the layered disc is playing back

*2) It appears when Repeat play back is set.

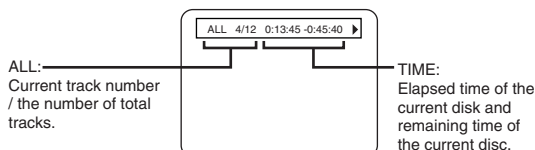
- 4 Press the DISPLAY Button or the RETURN Button to exit the display.

For audio CDs

- 1 Press the DISPLAY Button during playback.



- 2 Press the DISPLAY Button again.



- Use the Number Button to start from a desired track.

- 3 Press the DISPLAY Button to exit the display.

BLACK LEVEL SETTINGS

DVD

You can select the BLACK LEVEL ON to make the black areas of the picture brighter.

- 1 Press the MODE Button during playback.

- The setup screen will appear.



- 2 Press the ENTER Button to set it on or off.

- ON : It makes the dark parts brighter.(Default : ON)
- OFF : Original picture which is recorded on the disc will be shown.

- Press the RETURN Button to exit the display.

TRUSURROUND SETTINGS

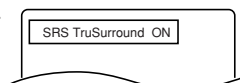
DVD

You can enjoy stereophonic sound system when you playback Dolby Digital and PCM 48kHz sound.

- 1 Press the SURROUND Button during playback.

or
Press the MODE Button twice.

- The setup screen will appear.



- 2 Press the SURROUND Button to turn it on or off.

or
Press the ENTER Button.

ON : SRS TruSurround on

OFF : SRS TruSurround off (Default : OFF)

- Press the RETURN Button to exit the display.
- SRS TruSurround is available only when the DVD/VCR is connected to a TV or stereo using the red and white AUDIO OUT jacks on the DVD/VCR.

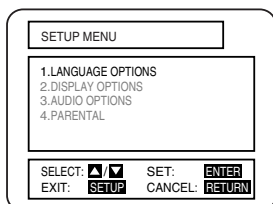
CHANGING THE SETUP ITEMS

LANGUAGE SETTINGS

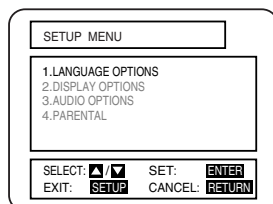
DVD

1 Press the SETUP Button in STOP mode.

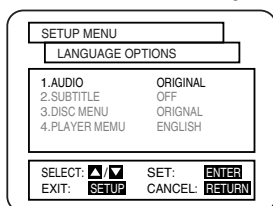
- The setup screen will appear.



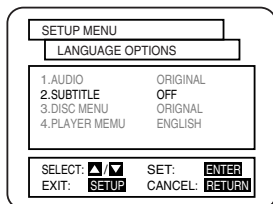
2 Press the Arrow Buttons (▲/▼) to select Language, and then press the ENTER Button.



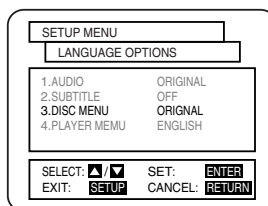
3 Press the Arrow Buttons (▲/▼) to select an item, and then press the ENTER Button.



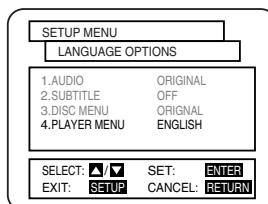
AUDIO:
(Voice is played back in selected language.)



SUBTITLE:
(Subtitles are shown in selected language.)



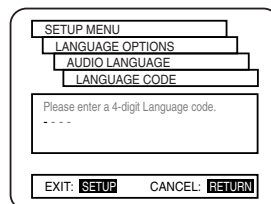
DISC MENU:
(The disc menu appears in selected language.)



PLAYER MENU:
(The on-screen display appears in selected language.)

4 Press the Arrow Buttons (▲/▼) to select a desired item, and then press the ENTER Button.

- If “OTHER” is selected on the “AUDIO LANGUAGE” “SUBTITLE LANGUAGE” or “DISC MENU LANGUAGE” setting screen, the Language Code setting screen will appear. Press the Number Buttons to enter the desired language code while referring to the list on page 47.



5 Press the SETUP Button.

- The setup mode will be cancelled and the ordinary screen will appear.

Notes

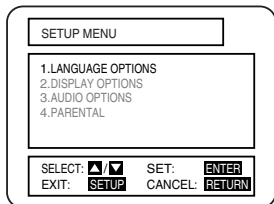
- Language Setting for Audio and Subtitle is not available with some discs. Then use the Audio and Subtitle Button. Details are on pages 40 and 41.
- You can also select the item by pressing the numbers which are displayed with the item.
- When you change the setup items, press the ■ Button if you are in playback mode.
- While the setup menu is shown you can not open or close the tray.

DISPLAY SETTINGS

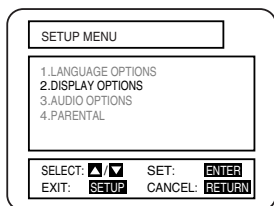
DVD

1 Press the SETUP Button in STOP mode.

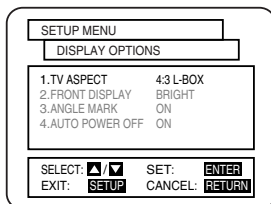
- The setup screen will appear.



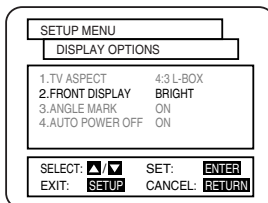
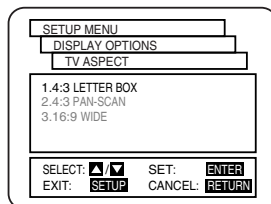
2 Press the Arrow Buttons (▲/▼) to select DISPLAY and then press the ENTER Button.



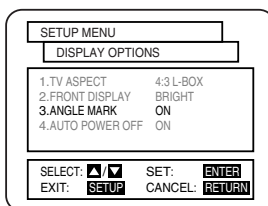
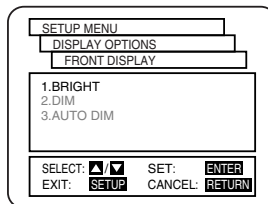
3 Press the Arrow Buttons (▲/▼) to select an item, and then press the ENTER Button.



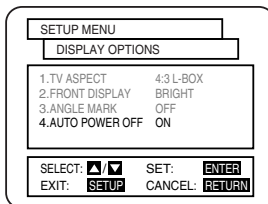
TV ASPECT
(Default : 4:3 LETTER BOX)
4:3 L-BOX: Wide screen with black bars on top and bottom
4:3 PAN-SCAN : Full height picture, trimmed both sides
16:9 WIDE : If wide screen TV is connected



FRONT DISPLAY (Default : BRIGHT)
Adjust the brightness of the display of the unit.
AUTO DIM: Stays dim only during playback.



ANGLE MARK (Default : ON)
Display or not display the Angle icon on the screen.



AUTO POWER OFF (Default : ON)
Set or not set to turn off after the screen saver is started and no keys are pressed for 30 minutes.

4 Press the Arrow Buttons (▲/▼) to select a desired item, and then press the ENTER Button.

5 Press the SETUP Button.

- The setup mode will be cancelled and the ordinary screen will appear.

Notes

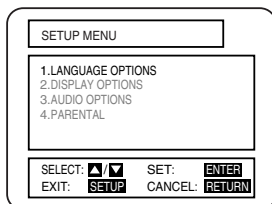
- Be sure to press the SETUP Button, or the setting will not work.
- You can also choose the item by pressing the Number Buttons.
- While the setup menu is shown you can not open or close the tray.

AUDIO SETTINGS

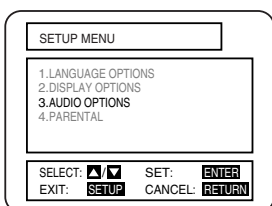
DVD

1 Press the **SETUP** Button in **STOP** mode.

- The setup screen will appear.



2 Press the Arrow Buttons (▲/▼) to select **Audio** and then press the **ENTER** Button.



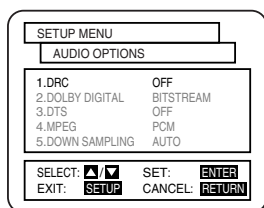
3 Press the Arrow Buttons (▲/▼) to select an item, and then press the **ENTER** Button.

DRC (Default : OFF)

On : DRC

(Dynamic Range Control)

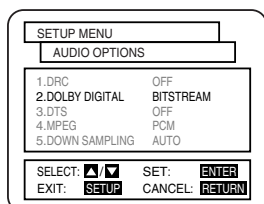
- This function is for controlling the range of sound volume. By compressing the range of sound volume, it is possible not only to suppress the output of loud sound at night and but also to raise the volume of low sound.
- This function is effective only for the sound recorded by Dolby Digital recording.



Dolby Digital (default : BITSTREAM)

BITSTREAM : Output by Dolby Digital

Set to BITSTREAM when the unit is connected to Dolby Digital Decoder. To turn off Dolby Digital, set at PCM.

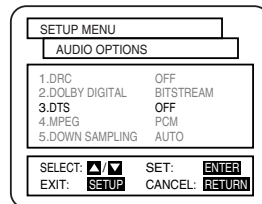


DTS (Default : OFF)

BITSTREAM : Output DTS sound

Set to BITSTREAM when the unit is connected to DTS Decoder.

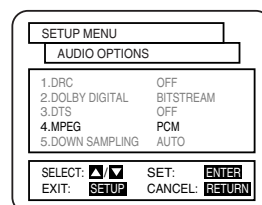
(Effective for DVD only. DTS CD output readily available without switching over.)



MPEG (Default : PCM)

BITSTREAM : Output MPEG sound

Set to BITSTREAM when the unit is connected to MPEG Decoder. To turn off MPEG, set at PCM.

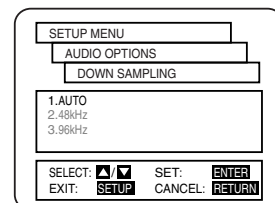
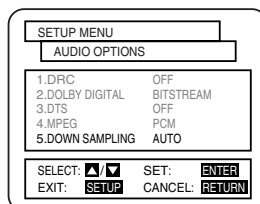


DOWN SAMPLING (Default : AUTO)

Set the output for the DVD

recorded in PCM 96kHz (96kHz or 48kHz, or AUTO)

- Press the Arrow Buttons (▲/▼) to select an item, and then press the **ENTER** Button.



When playing a disc with copyright protection

- If you select 96kHz, copyright protection will be activated and no sound will come out. If you select AUTO, sound will be down sampled at 48kHz.

4 Press the **SETUP** Button.

- The setup mode will be cancelled and the ordinary screen will appear.

Note

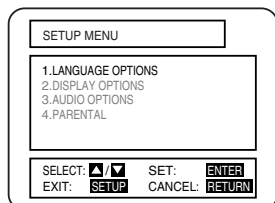
- While the setup menu is shown you can not open or close the tray.

PARENTAL LOCK

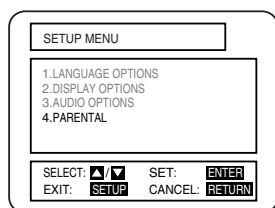
DVD

1 Press the SETUP Button in STOP mode.

- The setup screen will appear.

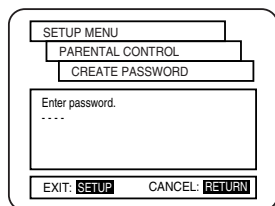


2 Press the Arrow Buttons (▲/▼) to select PARENTAL, and then press the ENTER Button.



3 Press the Number Buttons to enter a 4-digit password (you can use any 4-digits except for 4737), and then press the ENTER Button.

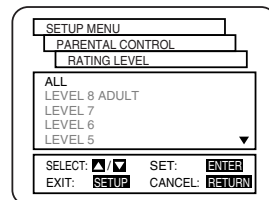
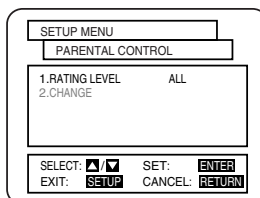
- This number will be used as the password from the second time onward.
- By entering the password, you can then change the control level and password settings.
- If you want to change the password, select “CHANGE” and enter a new password. Then press the ENTER Button.



4 Press the Arrow Buttons (▲/▼) to select an item, and then press the ENTER Button.

When Parental Level is selected

- Press the Arrow Buttons (▲/▼) to select an item from ALL or 8 to 1, and then press the ENTER Button.



5 Press the SETUP Button.

- The setup mode will be cancelled and the ordinary screen will appear.

CONTROL LEVELS

- **ALL**
All parental lock is cancelled.
- **Level 8 ADULT**
DVD software of any grade (adult/general/children) can be played back.
- **Levels 7 to 2**
Only DVD software intended for general use and children can be played back.
- **Level 1 KIDS SAFE**
Only DVD software intended for children can be played back, with those intended for adult and general use prohibited.

Notes

- With some DVDs, it may be difficult to find if they are compatible with parental lock. Be sure to check if the parental lock function operates in the way that you have set.
- Record the password in case you forget it.
- While the setup menu is shown you can not open or close the tray.

IF YOU FORGET THE PASSWORD

1) Press the 4, 7, 3, 7 at step 3.

- Password will be cleared and parental level will be set to ALL.

2) Proceed the above steps 3-5 again.

LANGUAGE CODE LIST

No.	Language	Country code	No.	Language	Country code
1	Afar	4 7 4 7	69	Latvian;Lettish	5 8 6 8
2	Abkhazian	4 7 4 8	70	Malagasy	5 9 5 3
3	Afrikaans	4 7 5 2	71	Maori	5 9 5 5
4	Amharic	4 7 5 9	72	Macedonian	5 9 5 7
5	Arabic	4 7 6 4	73	Malayalam	5 9 5 8
6	Assamese	4 7 6 5	74	Mongolian	5 9 6 0
7	Aymara	4 7 7 1	75	Moldavian	5 9 6 1
8	Azerbaijani	4 7 7 2	76	Marathi	5 9 6 4
9	Bashkir	4 8 4 7	77	Malay	5 9 6 5
10	Byelorussian	4 8 5 1	78	Maltese	5 9 6 6
11	Bulgarian	4 8 5 3	79	Burmese	5 9 7 1
12	Bihari	4 8 5 4	80	Nauru	6 0 4 7
13	Bislama	4 8 5 5	81	Nepali	6 0 5 1
14	Bengali;Bangla	4 8 6 0	82	Dutch [DUT]	6 0 5 8
15	Tibetan	4 8 6 1	83	Norwegian [NOR]	6 0 6 1
16	Breton	4 8 6 4	84	Occitan	6 1 4 9
17	Catalan	4 9 4 7	85	(Afan)Oromo	6 1 5 9
18	Corsican	4 9 6 1	86	Oriya	6 1 6 4
19	Czech	4 9 6 5	87	Panjabi	6 2 4 7
20	Welsh	4 9 7 1	88	Polish	6 2 5 8
21	Danish [DAN]	5 0 4 7	89	Pashto;Pushto	6 2 6 5
22	German [GER]	5 0 5 1	90	Portuguese [POR]	6 2 6 6
23	Bhutani	5 0 7 2	91	Quechua	6 3 6 7
24	Greek [GRE]	5 1 5 8	92	Rhaeto-Romance	6 4 5 9
25	English [ENG]	5 1 6 0	93	Kirundi	6 4 6 0
26	Esperanto	5 1 6 1	94	Romanian [RUM]	6 4 6 1
27	Spanish [SPA]	5 1 6 5	95	Russian [RUS]	6 4 6 7
28	Estonian	5 1 6 6	96	Kinyarwanda	6 4 6 9
29	Basque	5 1 6 7	97	Sanskrit	6 5 4 7
30	Persian	5 2 4 7	98	Sindhi	6 5 5 0
31	Finnish [FIN]	5 2 5 5	99	Sangho	6 5 5 3
32	Fiji	5 2 5 6	100	Serbo-Croatian	6 5 5 4
33	Faroese	5 2 6 1	101	Singhalese	6 5 5 5
34	French [FRE]	5 2 6 4	102	Slovak	6 5 5 7
35	Frisian	5 2 7 1	103	Slovenian	6 5 5 8
36	Irish [IRI]	5 3 4 7	104	Samoa	6 5 5 9
37	Scots Gaelic	5 3 5 0	105	Shona	6 5 6 0
38	Galician	5 3 5 8	106	Somali	6 5 6 1
39	Guarani	5 3 6 0	107	Albanian	6 5 6 3
40	Gujarati	5 3 6 7	108	Serbian	6 5 6 4
41	Hausa	5 4 4 7	109	Siswat	6 5 6 5
42	Hindi	5 4 5 5	110	Sesotho	6 5 6 6
43	Croatian	5 4 6 4	111	Sundanese	6 5 6 7
44	Hungarian [HUN]	5 4 6 7	112	Swedish [SWE]	6 5 6 8
45	Armenian	5 4 7 1	113	Swahili	6 5 6 9
46	Interlingua	5 5 4 7	114	Tamil	6 6 4 7
47	Interlingue	5 5 5 1	115	Telugu	6 6 5 1
48	Inupiak	5 5 5 7	116	Tajik	6 6 5 3
49	Indonesian	5 5 6 0	117	Thai	6 6 5 4
50	Icelandic [ICE]	5 5 6 5	118	Tigrinya	6 6 5 5
51	Italian [ITA]	5 5 6 6	119	Turkmen	6 6 5 7
52	Hebrew	5 5 6 9	120	Tagalog	6 6 5 8
53	Japanese	5 6 4 7	121	Setswana	6 6 6 0
54	Yiddish	5 6 5 5	122	Tonga	6 6 6 1
55	Japanese [JPN]	5 6 6 9	123	Turkish [TUR]	6 6 6 4
56	Georgian	5 7 4 7	124	Tsonga	6 6 6 5
57	Kazakh	5 7 5 7	125	Tatar	6 6 6 6
58	Greenlandic	5 7 5 8	126	Twi	6 6 6 9
59	Cambodian	5 7 5 9	127	Ukrainian	6 7 5 7
60	Kannada	5 7 6 0	128	Urdu	6 7 6 4
61	Korean [KOR]	5 7 6 1	129	Uzbek	6 7 7 2
62	Kashmiri	5 7 6 5	130	Vietnamese	6 8 5 5
63	Kurdish	5 7 6 7	131	Volapuk	6 8 6 1
64	Kirghiz	5 7 7 1	132	Wolof	6 9 6 1
65	Latin	5 8 4 7	133	Xhosa	7 0 5 4
66	Lingala	5 8 6 0	134	Yoruba	7 1 6 1
67	Laothian	5 8 6 1	135	Chinese [CHI]	7 2 5 4
68	Lithuanian	5 8 6 6	136	Zulu	7 2 6 7

If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Audio or Subtitle language setting on pages 40 and 41. If you choose any other languages, '---' will be displayed instead. (3 letter language code is written in bracket.)

TROUBLESHOOTING GUIDE

If the DVD/VCR does not perform properly when operated as instructed in this INSTRUCTION MANUAL, check the player consulting the following checklist.

DVD VCR Mode

PROBLEM	CORRECTIVE ACTION
No power.	<ul style="list-style-type: none"> • Make sure the power plug is connected to an AC outlet. • Make sure the power is turned on.
The player does not respond to the remote control.	<ul style="list-style-type: none"> • Check if the power plug is connected to an AC outlet. • Check the batteries in the remote control. • Aim the remote control directly at the remote sensor. If necessary, remove all the obstacles between the sensor and the remote. • You have to be within 23 feet of the DVD/VCR. • Check if the correct mode is selected. If not switch the mode by pressing the DVD or VCR Button on the remote control.

VCR Mode

PROBLEM	CORRECTIVE ACTION
Timer recording is not possible.	<ul style="list-style-type: none"> • Make sure the timer recording is set correctly. • Make sure the power is off. • Make sure the DVD/VCR clock is set correctly.
Recording mode cannot be engaged.	<ul style="list-style-type: none"> • Make sure the erase-prevention tab on the tape is intact. If removed, cover the hole after the tab with adhesive tape.
No picture or poor picture on playback.	<ul style="list-style-type: none"> • Set your TV to the video channel. • Fine tune your TV.
No picture but the audio is OK in playback.	<ul style="list-style-type: none"> • Head cleaning is necessary, consult the nearest Authorized Service Center.
Playback picture is partially noisy.	<ul style="list-style-type: none"> • Adjust tracking control for a better picture by using the CH Buttons (▲/▼) .
On-the-air TV programmes cannot be seen.	<ul style="list-style-type: none"> • Re-check the AERIAL and RF OUT connections. • Set your TV to the TV channel correctly.
Video or colour fades in and out when making a copy of a video tape.	<ul style="list-style-type: none"> • You cannot copy a copyrighted video tape. You are experiencing copy guard protection.

Symptom	Cause	Remedy
No picture	<ul style="list-style-type: none"> • Loose video connection. • Wrong disc. 	<ul style="list-style-type: none"> • Connect the video cables firmly. • Insert a correct video disc that plays on this player.
Disc cannot be played	<ul style="list-style-type: none"> • No disc. • Dirty disc. • Disc is placed upside down. • Parental lock is active. 	<ul style="list-style-type: none"> • Insert a disc. • Clean the disc. • Place the disc correctly, with the label side up. • Cancel the parental lock or change the control level.
No sound	<ul style="list-style-type: none"> • Loose audio connection. • The power of the connected audio component is off. • Wrong audio output settings. • Wrong input settings on the connected audio component. • Some discs may not be played back right away after a SEARCH. 	<ul style="list-style-type: none"> • Connect the audio cables firmly. • Turn the power of the audio component on. • Correct the audio output settings. • Correct the input settings on the audio component. • No malfunction.
Distorted picture	<ul style="list-style-type: none"> • Copy protection is active. • Immediately after playing, press fast forward or in reverse. • The 1st layer is switching to the 2nd layer, when playing a two layered disc. 	<ul style="list-style-type: none"> • Connect the player directly to the TV. • There are some cases where pictures may be slightly distorted, which are not a sign of a malfunction. • Although Pictures may stop for a moment, this is not a malfunction.
Audio or subtitle language does not match the setup.	<ul style="list-style-type: none"> • The selected language is not available for audio or subtitles on the DVD. 	<ul style="list-style-type: none"> • No malfunction.
The camera angle cannot be changed.	<ul style="list-style-type: none"> • The DVD does not contain sequences recorded from different camera angles. 	<ul style="list-style-type: none"> • No malfunction.
Audio or subtitle language cannot be changed.	<ul style="list-style-type: none"> • The DVD does not contain audio source or subtitles in the selected language. 	<ul style="list-style-type: none"> • No malfunction.
“Prohibited icon” appears on the screen, prohibiting an operation.	<ul style="list-style-type: none"> • That operation is prohibited by the player or disc. 	<ul style="list-style-type: none"> • No malfunction.
The tray cannot be open or close.	<ul style="list-style-type: none"> • The setup menu is displayed. 	<ul style="list-style-type: none"> • Cancel the setup mode.

Notes

Some functions are not available in specific modes, but this is not a malfunction. Read the description in this INSTRUCTION MANUAL for details on correct operations.

- Playback from a desired track and random playback are not available during programme playback.

HANDLING PRECAUTIONS

SERVICING

Should your DVD/VCR become inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn off, unplug the power cord, and take the unit to our Authorized Service Center.

CABINET CLEANING

- Wipe the front panel and other exterior surfaces of the DVD/VCR with a soft cloth immersed in lukewarm water and wrung dry.
- Never use a solvent or alcohol. Do not spray insecticide liquid near the DVD/VCR. Such chemicals may cause damage and discolouration to the exposed surfaces.

AUTO HEAD CLEANING

- Automatically cleans video heads as you insert or remove a cassette, so you can see a clear picture.
- Playback picture may become blurred or interrupted while the TV programme reception is clear. Dirt accumulated on the video heads after long periods of use, or the usage of rental or worn tapes can cause this problem. If a streaky or snowy picture appears during playback, the video heads in your DVD/VCR may need to be cleaned.

1. Please visit your local Audio/Video store and purchase a good quality VHS Video Head Cleaner.
2. If a Video Head Cleaner does not solve the problem, consult our nearest Authorized Service Center.

NOTES:

- Remember to read the instructions included with the video head cleaner before use.
- Clean video heads only when problems occur.

IF THE LASER OPTICAL PICKUP UNIT IS DIRTY

- If the player still does not perform properly when it is operated while referring to the relevant sections and to the TROUBLESHOOTING GUIDE in this INSTRUCTION MANUAL, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit.

DISC HANDLING

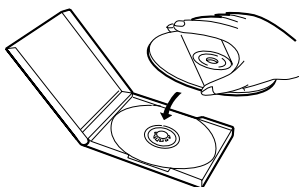
- Use discs which have the following logos on them. (Optical audio digital discs.)



- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.



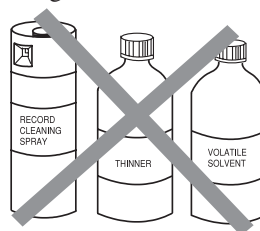
- Always store the disc in its protective case when it is not used.



- To clean-off, use a soft cloth.
- Do not use a hard cloth since this will mar the disc.
- Wipe the disc in a straight line from center to edge.
- Never wipe with a circular motion.



- Do not use detergent or abrasive cleaning agents.



SPECIFICATIONS

Product type:	DVD/VCR player with Video Cassette Recorder
Discs:	DVD video Audio CD Video Cassette tape
Converter output:	UHF Channel 22~69.
Power source:	220-240V~ +/- 10%, 50Hz +/- 0.5%
Power consumption:	30 W (standby: 5.7 W)
Operating temperature:	5°C to 40°C
Dimensions:	W 17-1/8" (435 mm) H 4" (99 mm) D 10-1/2" (266 mm)
Weight:	8.8 lbs (4 kg)

- Designs and specifications are subject to change without notice.

MEMO

MEMO



BATTERY SAFETY GUIDELINES

PLEASE PHOTOCOPY AND DISPLAY

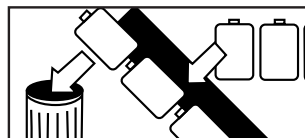
Used correctly, domestic batteries are a safe and dependable source of portable power. Problems can occur if they are misused or abused — resulting in leakage or, in extreme cases, fire or explosion. Here are some simple guidelines to safe battery use designed to eliminate any such problems.

ALWAYS



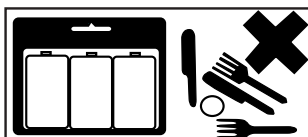
Take care to fit your batteries correctly, observing the plus and minus marks on the battery and appliance. Incorrect fitting can cause leakage or in extreme cases, fire or even an explosion.

ALWAYS



Replace the whole set of batteries at one time, taking care not to mix old and new batteries or batteries of different types, since this can result in leakage or in extreme cases, fire or even an explosion.

ALWAYS



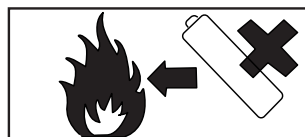
Store unused batteries in their packaging and away from metal objects which may cause a short-circuit resulting in leakage or, in extreme cases, fire or even an explosion.

ALWAYS



Remove dead batteries from equipment and all batteries from equipment you know you are not going to use for a long time. Otherwise the batteries may leak and cause damage.

NEVER



Never dispose of batteries in fire as this can cause them to explode. Please put dead batteries in with the normal household waste.

NEVER



Never attempt to recharge ordinary batteries, either in a charger or by applying heat to them. They may leak cause fire or even explode. There are special rechargeable batteries which are clearly marked as such.

ALWAYS



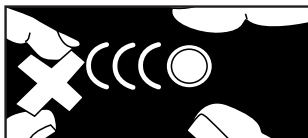
Supervise children if they are replacing batteries themselves in order to ensure these guidelines are followed.

NEVER



Remember that small button cell batteries such as used in some hearing aids, toys, games and other appliances, are easily swallowed by young children and this can be dangerous.

ALWAYS



Keep loose button cells away from young children.

ALWAYS



Make sure battery compartments are secure.

ALWAYS



Seek medical advice if you believe a cell has been swallowed.

SOME DOS AND DON'TS ON THE SAFE USE OF EQUIPMENT

This equipment has been designed and manufactured to meet international safety standards but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

★★★★★★★★★

DO read the operating instructions before you attempt to use the equipment.

DO ensure that all electrical connections (including the mains plug, extension leads and interconnection between pieces of equipment) are properly made and in accordance with the manufacturer's instructions.

Switch off and withdraw the mains plug when making or changing connections.

DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

DO be careful with glass panels or doors on equipment.

★★★★★★★★★

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way switch off, withdraw the mains plug and consult your dealer.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure that your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

DON'T listen to headphones at high volume, as such use can permanently damage your hearing.

DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings.

Overheating will cause damage and shorten the life of the equipment.

DON'T use makeshift stands and NEVER fix legs with wood screws — to ensure complete safety always fix the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T allow electrical equipment to be exposed to rain or moisture.

ABOVE ALL

---NEVER let anyone especially children push anything into holes, slots or any other opening in the case — this could result fatal electrical shock:

---NEVER guess or take chances with electrical equipment of any kind.

---it is better to be safe than sorry!

★★★★★★★★★

HITACHI - YOUR GUARANTEE (UK & Ireland)

For the period of **12 MONTHS** from the date of purchase your product has the benefit of our **FULL PARTS AND LABOUR GUARANTEE** as detailed below.

We undertake to replace or repair any part of the product which fails due to a manufacturing defect within 12 months of the date of purchase provided that.

- 1) The product has been installed and used only in accordance with the instructions supplied with the product.
- 2) The product has not been repaired, maintained, or modified by any person other than our authorised Engineer.
- 3) The product serial number is not removed or altered.

This guarantee does not apply to products acquired second-hand or for commercial or communal use.

This guarantee does not extend to user control adjustments, battery replacement and aerial adjustment. Any parts replaced under guarantee shall become the property of HITACHI EUROPE LTD.

Please note that evidence of the date of purchase will be required before service under guarantee is carried out.

This guarantee does not affect your statutory rights. In all cases of difficulty consult your HITACHI dealer.

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